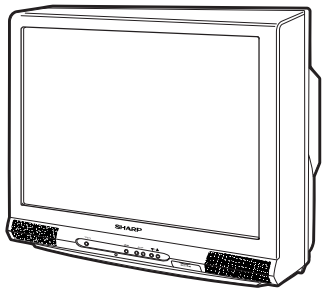
# SHARP SERVICE MANUAL



## COLOR TELEVISION

***Chassis No. GB-3***

## MODELS 32UF6

In the interests of user-safety (Required by safety regulations in some countries ) the set should be restored to its original condition and only parts identical to those specified should be used.

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### ELECTRICAL SPECIFICATIONS

POWER INPUT ..... 120V AC, 60 Hz
POWER RATING ..... 160W
PICTURE SIZE ..... 3074 $cm^2$ (476sq inch)
CONVERGENCE ..... Magnetic
SWEEP DEFLECTION ..... Magnetic
FOCUS ..... Hi-Bi-Potential Electrostatic
INTERMEDIATE FREQUENCIES
  Picture IF Carrier Frequency ..... 45.75 MHz
  Sound IF Carrier Frequency ..... 41.25 MHz
  Color Sub-Carrier Frequency ..... 42.17 MHz (Nominal)
AUDIO POWER
  OUTPUT RATING ..... 5.0W + 5.0W (at 10% distortion and Dual CH Operate)
SPEAKER
  SIZE ..... 12 x 6 cm oval (2 pcs.)
  VOICE COIL IMPEDANCE ..... 8 ohm at 400 Hz
ANTENNA INPUT IMPEDANCE
  VHF/UHF ..... 75 ohm Unbalanced
TUNING RANGES
  VHF-Channels ..... 2 thru 13
  UHF-Channels ..... 14 thru 69
  CATV Channels ..... 1 thru 125 (EIA, Channel Plan U.S.A.)

***Specifications are subject to change without prior notice.***

**SHARP CORPORATION**

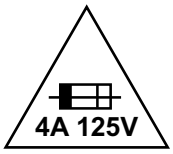
This document has been published to be used for after sales service only.
The contents are subject to change without notice.

# IMPORTANT SERVICE SAFETY PRECAUTION

**■ Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

## WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.
   To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.




**CAUTION**: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 4A-125V FUSE.

## SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

**When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)**

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

## X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.
   It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter.
   The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.
   Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

# IMPORTANT SERVICE SAFETY PRECAUTION

**(Continued)**

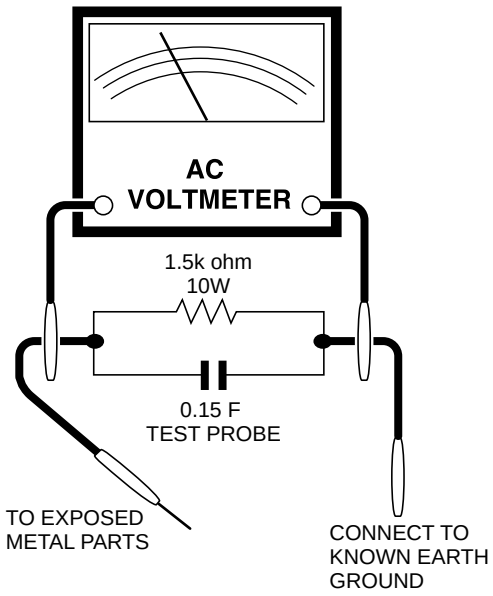
## BEFORE RETURNING THE RECEIVER

## (Fire & Shock Hazard)

**Before returning the receiver to the user, perform the following safety checks.**

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  AII checks must be repeated with the AC line cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)
  Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



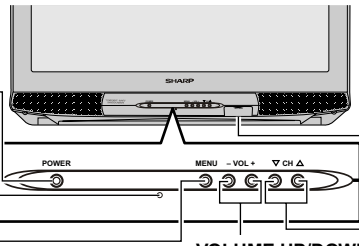

## SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

# LOCATION OF USER'S CONTROL(32UF6)

## Front Panel




**POWER**
Press On.
Press again Off.

**VIDEO/AUDIO IN 2 TERMINALS (INSIDE DOOR)**

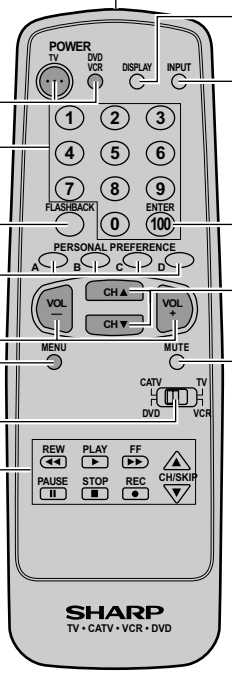
SENSOR AREA FOR REMOTE CONTROL

**CHANNEL UP/DOWN**
(8 ) Selects next higher channel.
(9 ) Selects next lower channel.
• Press both at the same time to access the MAIN MENU screen.

**MENU**
Press Accesses MAIN MENU.
Press again Exits MAIN MENU.

**VOLUME UP/DOWN**
(+) Increases sound.
(–) Decreases sound.

## Basic Remote Control Functions




Infrared Transmitter Window

**DISPLAY**
Press Displays receiving channel for four seconds.
Press again Removes display.
• Temporarily displays receiving channel when in Closed Caption mode.

**INPUT**
Press Switch to external video INPUT 1 mode.
Press 2 times Switch to external video INPUT 2 mode.
Press 3 times Switch to external video INPUT 3 mode or COMPONENT mode.
Press 4 times Switch back to the original TV mode.

**POWER**
Press On.
Press again Off.

**REMOTE KEYPAD**
Accesses any channel from keypad.

**FLASHBACK**
Returns to previous channel.

**PERSONAL PREFERENCE**
With the Personal Preference buttons, you can program your favorite programs by using the 4 categories A, B, C and D. The channels can be accessed quickly by using these buttons.

**VOLUME UP/DOWN**
(+) Increases sound.
(–) Decreases sound.
• In menu mode, changes or selects the TV adjustments.

**ENTER**
Used in some instances where a Cable Converter Box requires an "enter" command after selecting channels, when using the REMOTE KEYPAD button.

**MENU**
Press Accesses MAIN MENU.
Press again Exits MAIN MENU.

**CHANNEL UP/DOWN**
(8 ) Selects next higher channel.
(9 ) Selects next lower channel.
• Moves the "a" mark of the MENU screens.

**CATV/DVD-TV/VCR MODE SELECT SWITCH**
In TV/VCR position, sends power and channel select commands (Channel up/down and Random Access buttons) to the TV and VCR control.
In CATV/DVD position, sends power and channel select commands to a cable TV converter and DVD control.

**MUTE**
Press Mutes sound.
Press again Restores sound.
• CLOSED CAPTION appears when sound is muted.

**DVD/VCR CONTROL**

**Note:**

- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic mater ial, so it is safe to use.
- The degree of illumination will var y depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

# INSTALLATION AND SERVICE INSTRUCTIONS

**Note: (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.**
**(2) Before performing adjustments, the TV set must be on at least 15 minutes.**

## CIRCUIT PROTECTION

**The receiver is protected by a 4.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.**

## X-RADIATION PROTECTOR CIRCUIT TEST

**After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:**

1. Apply 120V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP651 (Pin 3) and make sure that the voltmeter reads 13.7 ±0.6V DC.
5. Apply external 17.3V DC at TP651 by using an external DC supply, TV must be shut off.
6. To reset the protector, unplug the AC cord and plug the AC cord power on. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

## HIGH VOLTAGE CHECK

**High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:**

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "V11" and Bus data "01" (Y-mute on, CRT Cut Off).
4. The voltage should be below 35.0kV (at zero beam). If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

**For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.**

**Note: There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.**

## 1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

## 2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "V01" to "P08". Select the item you wish to adjust.

## 3. Data number selection

Press the Vol-up or Vol-down button to adjust the data number.

## To enter the service mode and exit service mode.

To enter the service mode manually just press and hold the Vol-down and Ch-up buttons at the same time, plug the AC cord into a wall socket.
Now the TV set is switched on and enters the service mode.
To exit the service mode, turn the television off by pressing the power button.

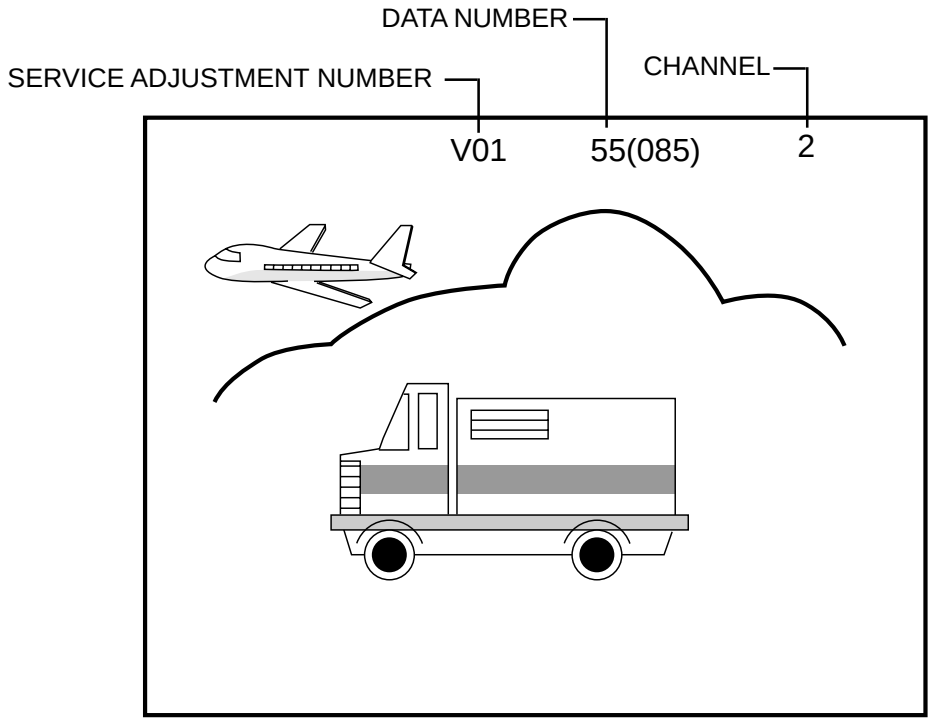



**Figure A.**

## A. VCJ IC ADJUSTMENT

| SERVICE NUMBER | ADJUSTMENT ITEM | DATA | | NOTES | FIXED VALUE (HEX) |
|---|---|---|---|---|---|
| | | RANGE | INITIAL VALUE | | |
| V01 | PICTURE | 0-15 (00h-0Fh) | 8 (08h) | | |
| V02 | TINT | 0-127 (00h-7Fh) | 66 (42h) | | |
| V03 | COLOR | 0-127 (00h-7Fh) | 56 (38h) | | |
| V05 | BRIGHT | 0-127 (00h-7Fh) | 64 (40h) | | |
| V06 | R CUT-OFF | 64-255 (40h-FFh) | 64 (40h) | | |
| V07 | G CUT-OFF | 64-255 (40h-FFh) | 64 (40h) | | |
| V08 | B CUT-OFF | 64-255 (40h-FFh) | 64 (40h) | | |
| V09 | G/R DRIVE | 0-127 (00h-7Fh) | 64 (40h) | | |
| V10 | B DRIVE | 0-127 (00h-7Fh) | 64 (40h) | | |
| V11 | Y-MUTE/V-STOP | 0-2 | 0 (00h) | Y-Mute / Holizontal “—” | |
| V12 | SHARP | 0-63 (00h-3Fh) | 50 (32h) | | 32 |
| V13 | DC RESTORATION | 0-3 (00h-03h) | 2 (02h) | | 02 |
| V14 | BLACK STRETCH | 0-3 (00h-03h) | 2 (02h) | | 02 |
| V15 | ABL START POINT | 0-3 (00h-03h) | 3 (03h) | | 03 |
| V16 | ABL GAIN | 0-3 (00h-03h) | 2 (02h) | | 02 |
| V17 | γ POINT | 0-3 (00h-03h) | 0 (00h) | | 00 |
| V19 | ENERGY SAVE | 0-63 (00h-3Fh) | 63 (3Fh) | Offset | 3F |
| V24 | LOW-G | 0-255 (00h-FFh) | 12 (0Ch) | Color Temp. | F4 |
| V25 | LOW-B | 0-255 (00h-FFh) | 241 (F1h) | Color Temp. | E6 |
| V26 | ML-G | 0-255 (00h-FFh) | 0 (00h) | Color Temp. | FD |
| V27 | ML-B | 0-255 (00h-FFh) | 247 (F7h) | Color Temp. | F8 |
| V28 | HIGH-G | 0-255 (00h-FFh) | 2 (02h) | Color Temp. | 01 |
| V29 | HIGH-B | 0-255 (00h-FFh) | 8 (08h) | Color Temp. | 06 |
| V30 | WPL | 0-1 | 1 (01h) | | 01 |
| V31 | RGB CONTRAST | 0-63 (00h-3Fh) | 59 (3Bh) | | 3B |
| V34 | VSM GAIN | 0-3 (00h-03h) | 1 (01h) | | 01 |
| V36 | BPF/TOF-INPUT | 0-1 | 0 (00h) | External Input | 00 |
| V37 | CORING | 0-1 | 0 (00h) | | 00 |
| V38 | VSM PHASE | 0-1 | 0 (00h) | | 00 |
| V39 | COLOR γ | 0-1 | 0 (00h) | | 00 |
| V40 | SHARP-INPUT | 0-63 (00h-3Fh) | 44 (2Ch) | External Input | 2C |
| V41 | TINT-INPUT | 0-127 (00h-7Fh) | 62 (3Eh) | External Input | 3E |
| V42 | PICTURE-COMPONENT | 0-15 (00h-0Fh) | 6 (06h) | Component Input | |
| V43 | TINT-COMPONENT | 0-127 (00h-7Fh) | 62 (3Eh) | Component Input | 3E |
| V44 | COLOR-COMPONENT | 0-127 (00h-7Fh) | 72 (48h) | Component Input | 48 |
| V45 | BRIGHT-COMPONENT | 0-127 (00h-7Fh) | 84 (54h) | Component Input | |
| V46 | R CUT OFF-COMPONENT | 64-255 (00h-FFh) | 64 (40h) | Component Input | |
| V47 | G CUT OFF-COMPONENT | 64-255 (00h-FFh) | 64 (40h) | Component Input | |
| V48 | B CUT OFF-COMPONENT | 64-255 (00h-FFh) | 64 (40h) | Component Input | |
| V49 | G/R DRIVE-COMPONENT | 0-127 (00h-7Fh) | 64 (40h) | Component Input | |
| V50 | B DRIVE-COMPONENT | 0-127 (00h-7Fh) | 64 (40h) | Component Input | |
| V51 | SHARP-COMPONENT | 0-63 (00h-3Fh) | 44 (2Ch) | Component Input | 2C |
| V52 | TINT-S | 0-127 (00h-7Fh) | 62 (3Eh) | Component Input | 3E |
| V53 | C-TRAP | 0-1 (00h-01h) | 0 (00h) | | 00 |
| V59 | AUTO FRESH | 0-1 (00h-01h) | 0 (00h) | | 00 |
| V60 | SHARP P F | 0-1 (00h-01h) | 1 (01h) | | 01 |
| V61 | CD MATRIX | 0-3 (00h-03h) | 2 (02h) | | 02 |
| V62 | B-Y ATT | 0-1 (00h-01h) | 0 (00h) | | 00 |
| V63 | R-Y ATT | 0-1 (00h-01h) | 0 (00h) | | 00 |
| V64 | CD MATRIX COMPONENT | 0-3 (00h-03h) | 0 (00h) | Component Input | 00 |
| V65 | B-Y ATT-COMPONENT | 0-1 (00h-01h) | 0 (00h) | Component Input | 00 |
| V66 | R-Y ATT-COMPONENT | 0-1 (00h-01h) | 0 (00h) | Component Input | 00 |
| V67 | BUZZ | 0-1 (00h-01h) | 1 (01h) | | 01 |
| V68 | RGB ABCL | 0-1 (00h-01h) | 1 (01h) | | 01 |
| V69 | PICTURE-VCOMP | 0-100 (00h-64h) | 47 (2Fh) | 16:9 Format (Offset) | 2F |
| V70 | COLOR-VCOMP | 0-100 (00h-64h) | 50 (32h) | 16:9 Format (Offset) | 32 |
| V71 | BRIGHT-VCOMP | 0-100 (00h-64h) | 51 (33h) | 16:9 Format (Offset) | 33 |
| R01 | RF-AGC | 0-63 (00h-3Fh) | 36 (24h) | | |
| R03 | RF-AGC REF | 0-255 (00h-FFh) | 170 (AAh) | Standard value for the self-adjustment | AA |
| D01 | V POSITION | 0-7 (00h-07h) | 0 (00h) | | 00 |
| D02 | H POSITION | 0-31 (00h-1Fh) | 15 (0Fh) | | |
| D03 | V SIZE | 0-127 (00h-7Fh) | 89 (59h) | | |
| D04 | H SIZE | 0-63 (00h-3Fh) | 36 (24h) | | |
| D05 | V-LINEARITY | 0-15 (00h-0Fh) | 8 (08h) | | |
| D06 | V-S CORRECTION | 0-15 (00h-0Fh) | 12 (0Dh) | | 0D |
| D07 | EW PARABOLA | 0-63 (00h-3Fh) | 43 (2Bh) | | |
| D08 | EW TRAPEZIUM | 0-63 (00h-3Fh) | 36 (24h) | | |
| D10 | AFC GAIN | 0-3 (00h-03h) | 2 (02h) | | 02 |
| D11 | V EHT | 0-7 (00h-07h) | 6 (06h) | | 06 |
| D12 | H EHT | 0-7 (00h-07h) | 6 (06h) | | 06 |
| D13 | EW CORNER | 0-31 (00h-1Fh) | 8(08h) | | 08 |

| SERVICE NUMBER | ADJUSTMENT ITEM | DATA | | NOTES | FIXED VALUE (HEX) |
|---|---|---|---|---|---|
| | | RANGE | INITIAL VALUE | | |
| D14 | EW CORNER BOTTOM | 19-81 (13h-51h) | 50 (32h) | Offset toward D13. | 32 |
| D15 | NOISE DET LEVEL | 0-3 (00h-03h) | 0 (00h) | | 00 |
| D18 | V CENTERING | 0-63 (00-3Fh) | 36 (24h) | | |
| D19 | V-AGC | 0-1 (00h-01h) | 0 (00h) | | 00 |
| D20 | V POSITION-VCOMP | 0-7 (00h-07h) | 0 (00h) | 16:9 Format | 00 |
| D21 | H POSITION-VCOMP | 0-31 (00h-1Fh) | 15(0Fh) | 16:9 Format | |
| D22 | V SIZE-VCOMP | 0-127 (00h-7Fh) | 52(34h) | 16:9 Format | |
| D23 | H SIZE-VCOMP | 0-63 (00h-3Fh) | 36(24h) | 16:9 Format | |
| D24 | V-LINEARITY-VCOMP | 0-15 (00h-0Fh) | 8(08h) | 16:9 Format | |
| D25 | V-C CORRECTION-VCOMP | 0-15 (00h-0Fh) | 10(0Ah) | 16:9 Format | 0B |
| D26 | EW PARABOLA-VCOMP | 0-63 (00h-3Fh) | 22(16h) | 16:9 Format | |
| D27 | EW TRAPEZIUM-VCOMP | 0-63 (00h-3Fh) | 35(23h) | 16:9 Format | |
| D28 | V EHT-VCOMP | 0-7 (00h-07h) | 6(06h) | 16:9 Format | 06 |
| D29 | H EHT-VCOMP | 0-7 (00h-07h) | 6(06h) | 16:9 Format | 06 |
| D30 | EW CORNER-VCOMP | 0-31 (00h-1Fh) | 12(0Ch) | 16:9 Format | 0B |
| D31 | EW CORNER BOTTOM-VCOMP | 19-81 (13h-51h) | 50(32h) | Offset toward D30 | 32 |
| D32 | V BLK UPPER-VCOMP | 0-3 (00h-03h) | 2(02h) | 16:9 Format | 02 |
| D33 | V BLK LOWER-VCOMP | 0-3 (00h-03h) | 2(02h) | 16:9 Format | 02 |
| D34 | V CENTERING-VCOMP | 0-63 (00h-3Fh) | 36(24h) | 16:9 Format | |

## B. SPECIAL SETTING

| SERVICE NUMBER | ADJUSTMENT ITEM | DATA | | NOTES | FIXED VALUE (HEX) |
|---|---|---|---|---|---|
| | | RANGE | INITIAL VALUE | | |
| EX1 | FAO VOLUME | 0-50 (00h-32h) | 36 (24h) | | 24 |
| EX2 | CC-POSITION | 0-127 (00h-7Fh) | 27 (1Bh) | | 1C |
| EX3 | INT | 0-255 (00h-FFh) | 122 (7Ah) | Interrupt period adjustment. | 7A |
| EX4 | A-ATT | 0-127 (00h-7Fh) | 90 (5Ah) | | 5A |
| EX5 | TUNER data | 0-3 (00h-03h) | 0 (00h) | | 00 |
| EX6 | Think chip-Slice LEVEL | 0-255 (00h-FFh) | 54 (36h) | | 12 |
| EX7 | RLY DELAY TIME | 0-255 (00h-FFh) | 0 (00h) | For the power control | 00 |
| EX8 | ADG ON TIME | 0-255 (00h-FFh) | 10 (0Ah) | For the power control | 0A |

## C. OPTION SETTING

| SERVICE NUMBER | ADJUSTMENT ITEM | DATA | | NOTES | FIXED VALUE (HEX) |
|---|---|---|---|---|---|
| | | RANGE | INITIAL VALUE | | |
| OP1 | OPTION1 | 0-255 (00h-FFh) | 245 (F5h) | | F5 |
| OP2 | OPTION2 | 0-255 (00h-FFh) | 188 (BCh) | | BC |
| OP3 | OPTION3 | 0-255 (00h-FFh) | 15 (0Fh) | | 0F |

## D. SOUND ADJUSTMENT

| SERVICE NUMBER | ADJUSTMENT ITEM | DATA | | NOTES | FIXED VALUE (HEX) |
|---|---|---|---|---|---|
| | | RANGE | INITIAL VALUE | | |
| M01 | INPUT LEVEL | 0-15 (00h-0Fh) | 7 (07h) | | |
| M02 | MTS VCO | 0-63 (00h-3Fh) | 38 (26h) | | |
| M03 | FILTER | 0-63 (00h-3Fh) | 36 (24h) | | |
| M04 | WIDEBAND | 0-63 (00h-3Fh) | 28 (1Ch) | | |
| M05 | SPECTRAL | 0-63 (00h-3Fh) | 23 (17h) | | |
| M09 | SRS LEVEL | 0-255 (00h-FFh) | 224 (E0h) | | E0 |
| M10 | BBE LEVEL | 0-255 (00h-FFh) | 217 (D9h) | | D9 |
| M11 | SRS&BBE LEVEL | 0-255 (00h-FFh) | 208 (D0h) | | D0 |
| M12 | SRS&BBE OFF LEVEL | 0-255 (00h-FFh) | 228 (E4h) | | E4 |
| M13 | SRS Effect | 2-3 (02h-03h) | 2 (02h) | | 02 |
| M14 | BBE-L Effect | 0-15 (00h-0Fh) | 15 (0Fh) | | 0F |
| M15 | BBE-H Effect | 0-15 (00h-0Fh) | 15 (0Fh) | | 0F |
| M16 | AGC Level | 0-7 (00h-07h) | 1 (01h) | | 01 |
| M17 | BASS Offset | 0-31 (00h-1Fh) | 15 (0Fh) | | 0F |
| M18 | TREBLE Offset | 0-31 (00h-1Fh) | 15 (0Fh) | | 0F |
| M19 | BASS Offset-BBE | 0-31 (00h-1Fh) | 17 (11h) | | 11 |
| M20 | TREBLE Offset-BBE | 0-31 (00h-1Fh) | 16 (10h) | | 10 |

Holding down both the VOL-up and CH-up buttons on the TV set at service mode for more than 2 seconds will

| PART REPLACED | ADJUSTMENT | | NOTES |
|---|---|---|---|
| | NECESSARY | UNNECESSARY | |
| IC2001 | | X | Data is stored in IC2101. |
| IC201 | X | | The adjustment is needed to compensate for characteristics of parts |
| IC2101 | X | | Holding down both the VOL-up and CH-up buttons on the TV set in the service mode for more than 2 seconds will automatically write the |
| CRT | X | | Adjust items related to picture tube only. |
| IC3001 | X | | Adjust items related to MTS only (M01~M20). |

# SERVICE ADJUSTMENT

## RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "R01".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.
   **Note 1 :** You will have to come out of the service mode to select another channel.
   **Note 2 :** Setting the data to "00" will produce a black raster.

## Screen Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "V03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service adjustment "V11" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
4. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
5. Adjust the service adjustments "V06" red, "V07" green and "V08" blue to obtain a good grey scale with normal whites at low brightness level.
6. Select the service adjustment "V11" and reset data to "00". Select the service adjustment "V03" and reset data to obtain normal color level.
7. For component input, the data value of "V46" red, "V47" green and "V48" blue is adjusted to follow the data value of "V06", "V07" and "V08" respectively.
8. Reset the master screen control to obtain normal brightness range.

## White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set to "00" (minimum color)(Record original data code under adjustment "V03" before changing). "V03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "V09" and "V10" until a good grey scale with normal whites is obtained. (RF Input)
4. For component input, the data value of "V49" and "V50" is adjusted to follow the data value of "V09" and "V10" respectively.
5. Select the service adjustment "V03" and reset data to obtain normal color level.

## Sub-picture and Sub-Bright Adjustments

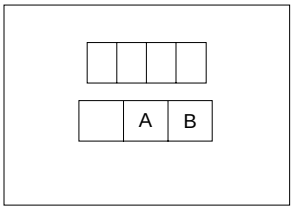
1. Receive the window pattern signal.

• RF INPUT (TU51)

2. Get into service adjustment data "V01" and "V05" and set the luminance as shown in figure "A" and "B" as below respectively.

• COMPONENT INPUT

3. Get in service adjustment data "V42" and "V45" and set the luminance as shown in figure "A" and "B" as below respectively.




LUMINESCENCE CONFIRMATION

A: 95±10cd/$m^2$

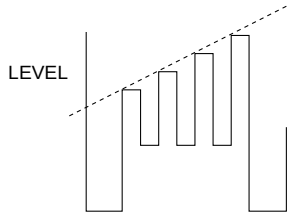
B: 1.5±0.5cd/$m^2$

## Sub-Tint Adjustment

1. Receive the half color bar signal.

• RF INPUT (TU51)

2. Get into Y-Mute by R/C, or by setting the "V11" bus data to "01".
3. Vary the "V02" bus data until the waveform becomes as stated below.




B-AMP Base waveform in step (TP47B)

## Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .

• RF INPUT (TU51)

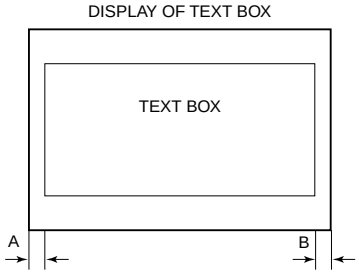
3. Enter the service mode and select service adjustment "V03".
4. Adjust "V03" data value to obtain a normal color level.

## Focus Adjustment

1. Receive a good local channel.
2. Adjust the FOCUS VR of the flyback transformer to make the image as fine as possible.

## C. C Display Position Adjustment

1. Receive the lion head pattern signal.
2. Select "EX2" to display the text box.
3. Adjust the "EX2" bus data to let the text box displayed in the center.




| A-B | / 2

SPEC INSPECTION:| A-B | / 2 ≦ 5mm

## Vertical-Size and Linearity Adjustments

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D03" for V-size.
3. Adjust the "D03" bus data to get the proper V-size.
4. For V-linearity adjustment, select data bus "D05" and adjust to get the proper vertical linearity.

(SCREEN FORMAT 16:9)

5. Input data of "D22" to mines 36 step from "D03" data. (V-SIZE)
6. Input data of "D24" same as "D05" data. (V-LIN)

**Note:** Aging for 10 min before adjustment. After the adjustment of V-center and V-size, re-adjustment for this V-line.

## Vertical Phase Adjustment

(SCREEN FORMAT 4:3)

1. Enter the service mode and input data of “00h” on "D01".
2. Adjust "D18" data value so that picture is centered.

(SCREEN FORMAT 16:9)

3. Input data of "00h" on "D20".
4. Input data of "D34" same as "D18" data.

## Horizontal Position Adjustment

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D02".
3. Adjust "D02" data value so that picture is centered.

(SCREEN FORMAT 16:9)

4. Input data of "D21" same as "D02" data.

## Horizontal-Size Adjustment

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D04" for H-size.
3. Adjust the "D04" bus data to get the proper H-size.

(SCREEN FORMAT 16:9)

4. Input data of "D23" same as "D04" data.

## EW-Parabola

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D07" for EW parabola.
3. Adjust the "D07" bus data to get the proper vertical straight line for both left and right side.

(SCREEN FORMAT 16:9)

4. Input data of "D26" to mines 19 step from "D07" data.

## EW-Trapezium

1. Receive a good local channel.

(SCREEN FORMAT 4:3)

2. Enter the service mode and select the service adjustment "D08" for EW-Trapezium.
3. Adjust the "D08" bus data to get the best position display.

(SCREEN FORMAT 16:9)

4. Input data of "D27" same as "D08" data.

# ■ MTS ADJUSTMENT

## MTS Level Adjustment

1. Set the sound volume above 1.
   Monoral signal: 400Hz, 100% modulation
2. Confirm "EX4" data is "5Ah".
3. Vary the "M01" bus data until the voltage to pin (39) of IC3001 to become the value as stated below.
   SETTING VOLTAGE
   ADJ spec : 490±10mVrms
   CHK spec: 490±20mVrms

## MTS VCO Adjustment

1. Keep the unit in no-signal state.
2. Connect the frequency counter to pin (39) of IC3001.
3. Connect a capacitor (100µF, 50V) in between positive(+) side of C3005 and ground.
4. Enter the service mode and select the service adjustment "M02"
5. Adjust the data so that the frequency counter reads 62.94 ±0.75kHz.

## Filter Adjustment

1. Feed the following stereo pilot signal to pin (14) of IC3001 at C3005 open.
   Stereo pilot signal: 9.4kHz, 600mVrms.
2. Enter the service mode and select the service adjustment "M03".
3. Adjust the data until "OK" appears in position on the screen. Make sure the "OK" is displayed almost at the center of the data range.

## Separation Adjustment

1. Input "SIGNAL 1" and vary the "M04" bus data to get the minimun AC voltage to pin (39) of IC3001.
2. Input "SIGNAL 2" and vary the "M05" bus data to get the minimun AC voltage to pin (39) of IC3001.
   SIGNAL 1: 300Hz, 30% modulation, Lch only, NR-ON
   SIGNAL 2: 3kHz, 30% modulation, Lch only, NR-ON

Note: SIGNAL 1 Adj. for widebando
SIGNAL 2 Adj. for spectral

Check the output of the speaker at the maximum volume as stated below.
Confirmation spec:
ADJ spec: above 25 dB
CHK spec: above 20 dB

# DESCRIPTION OF SCHEMATIC DIAGRAM

***NOTES:***

1. *The unit of resistance "ohm" is omitted. (K=kΩ=1000Ω, M=MΩ)*
2. *All resistors are 1/16 watt, unless otherwise noted.*
3. *All capacitors are μ F, unless otherwise noted. (P=pF=μμF)*
4. *(G) indicates ±2% tolerance may be used.*
5. ⏚ *indicates line isolated ground.*

***VOLTAGE MEASUREMENT CONDITIONS:***

1. *All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.*
2. *All voltages measured with 1000μ V B & W or Color signal.*

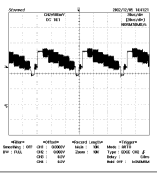
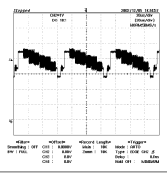
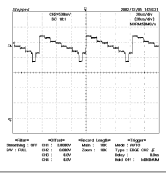
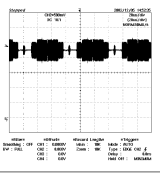
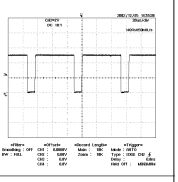
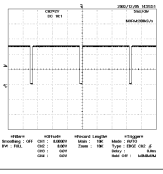
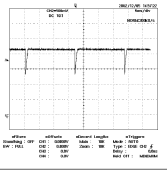
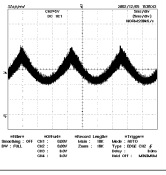
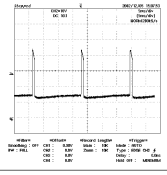
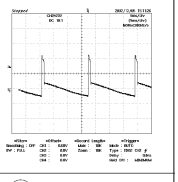
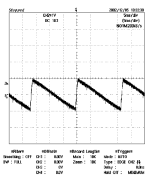
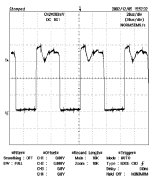
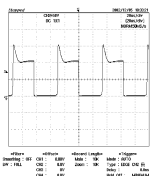
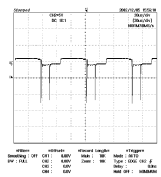
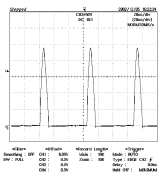
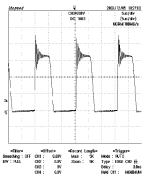
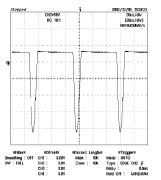
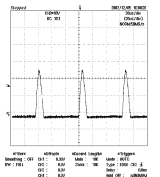
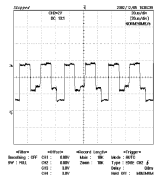
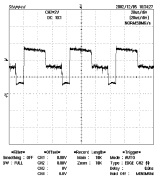
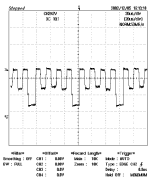
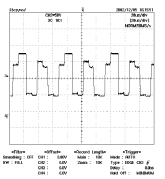
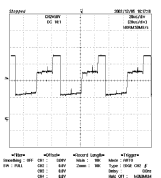
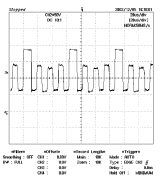
***WAVEFORM MEASUREMENT CONDITIONS:***

1. *Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.*
2. ⟳ *indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)*

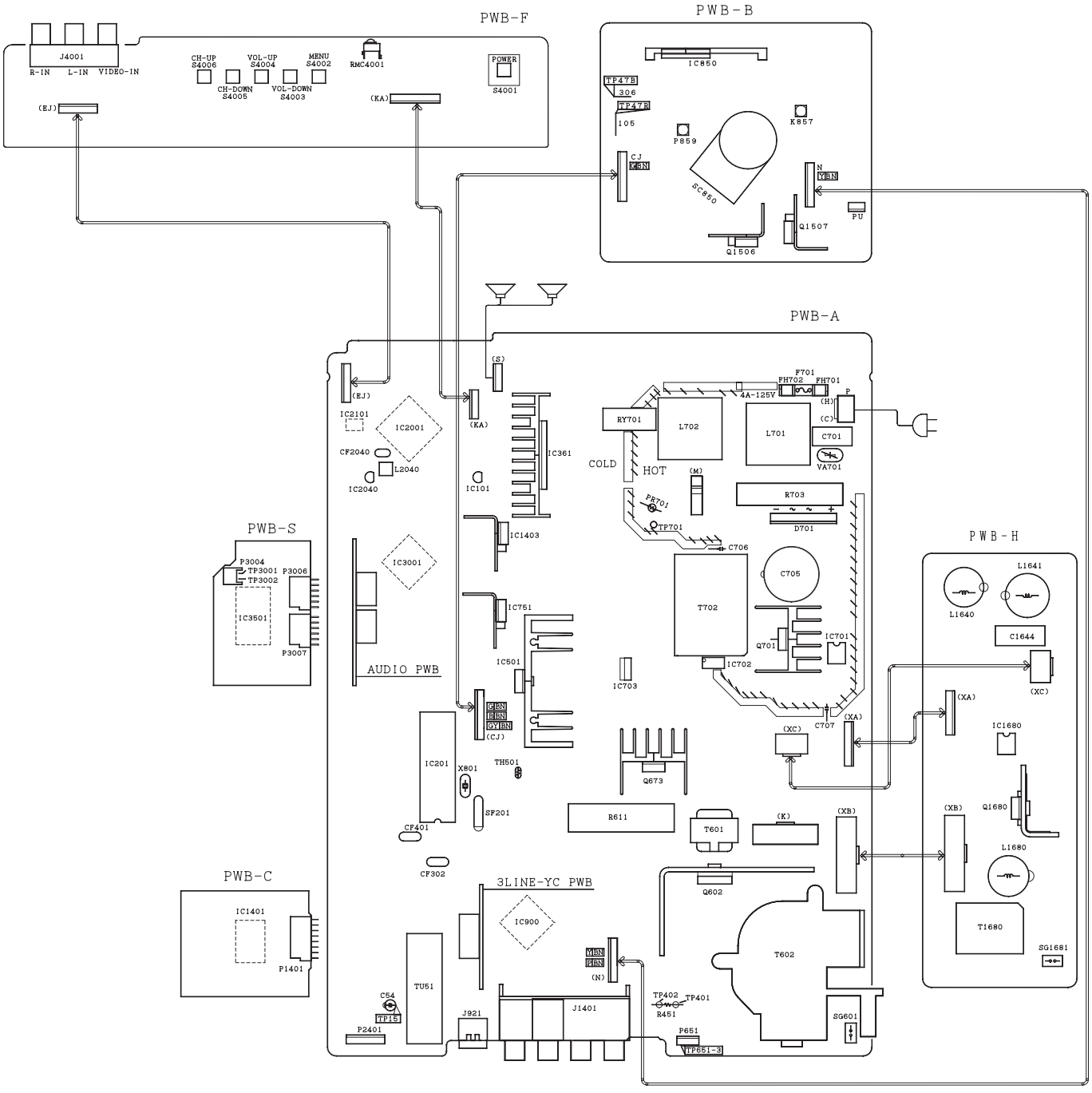
⚠ *AND SHADED ( ▭ ) COMPONENTS = SAFETY RELATED PARTS.*
▲ *MARK= X-RAY RELATED PARTS.*

*This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.*

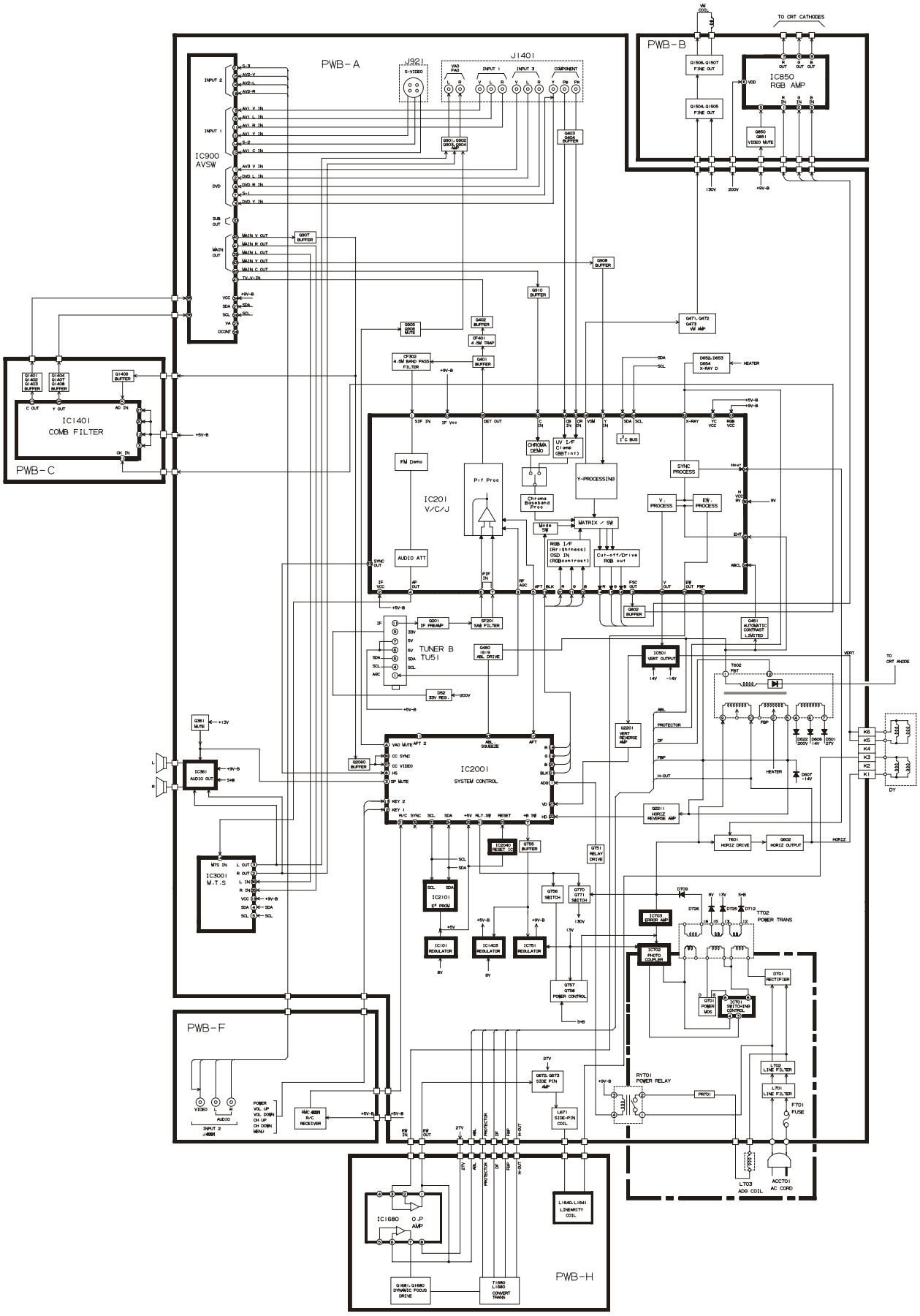
# WAVEFORMS

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| ① 1.0 Vpp | ② 2.1 Vpp | ③ 1.0 Vpp | ④ 0.75 Vpp | ⑤ 5.0 Vpp |
|  |  |  |  |  |
| ⑥ 5.0 Vpp | ⑦ 0.85 Vpp | ⑧ 12.5 Vpp | ⑨ 32 Vpp | ⑩ 56 Vpp |
|  |  |  |  |  |
| ⑪ 2.0 Vpp | ⑫ 0.8 Vpp | ⑬ 230 Vpp | ⑭ 14 Vpp | ⑮ 1150 Vpp |
|  |  |  |  |  |
| ⑯ 450 Vpp | ⑰ 250 Vpp | ⑱ 29.5 Vpp | ⑲ 3.0 Vpp | ⑳ 3.0 Vpp |
|  |  |  |  | |
| ㉑ 3.0 Vpp | ㉒ 130 Vpp | ㉓ 125 Vpp | ㉔ 130 Vpp | |

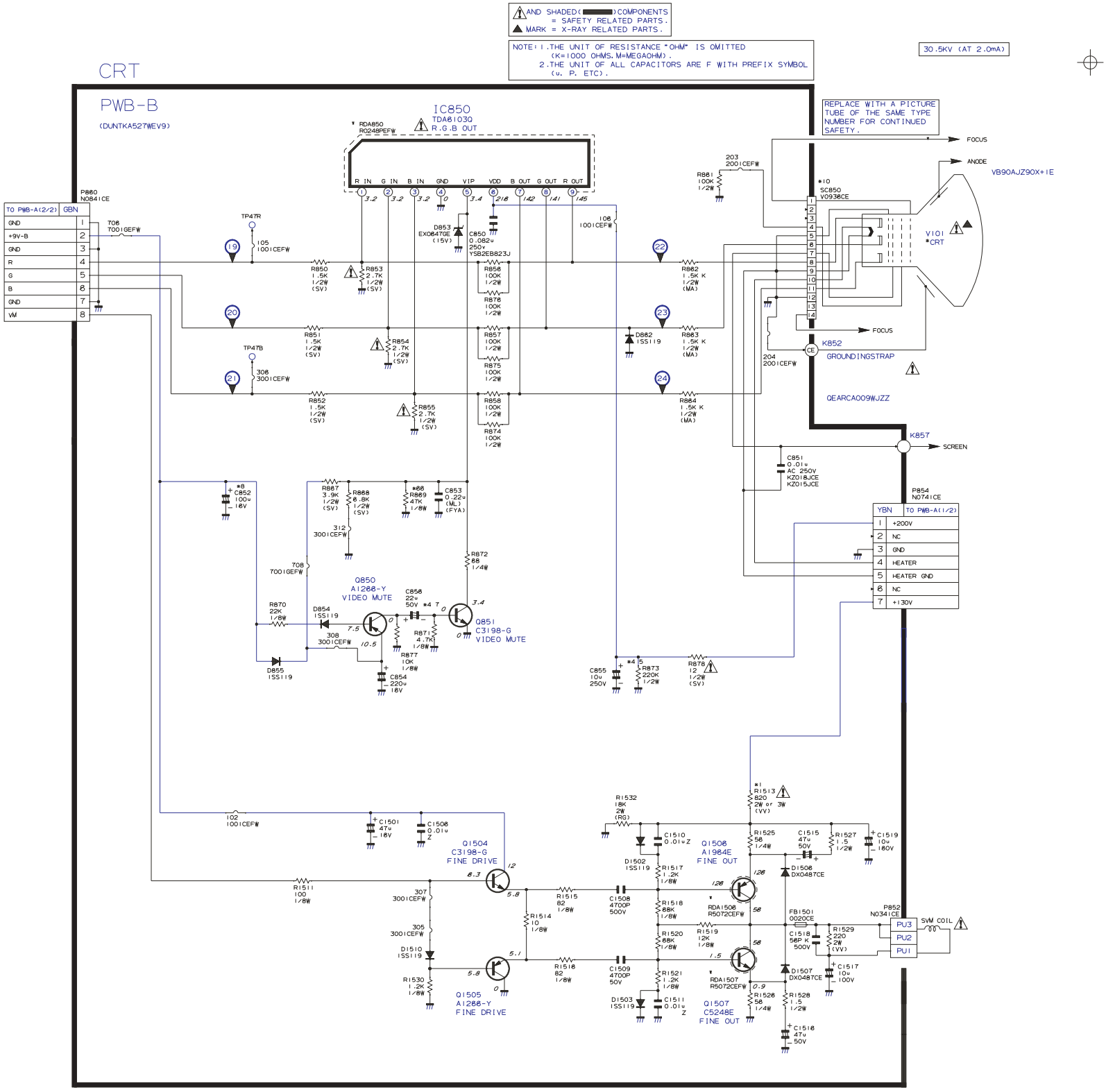
# CHASSIS LAYOUT(32UF6)

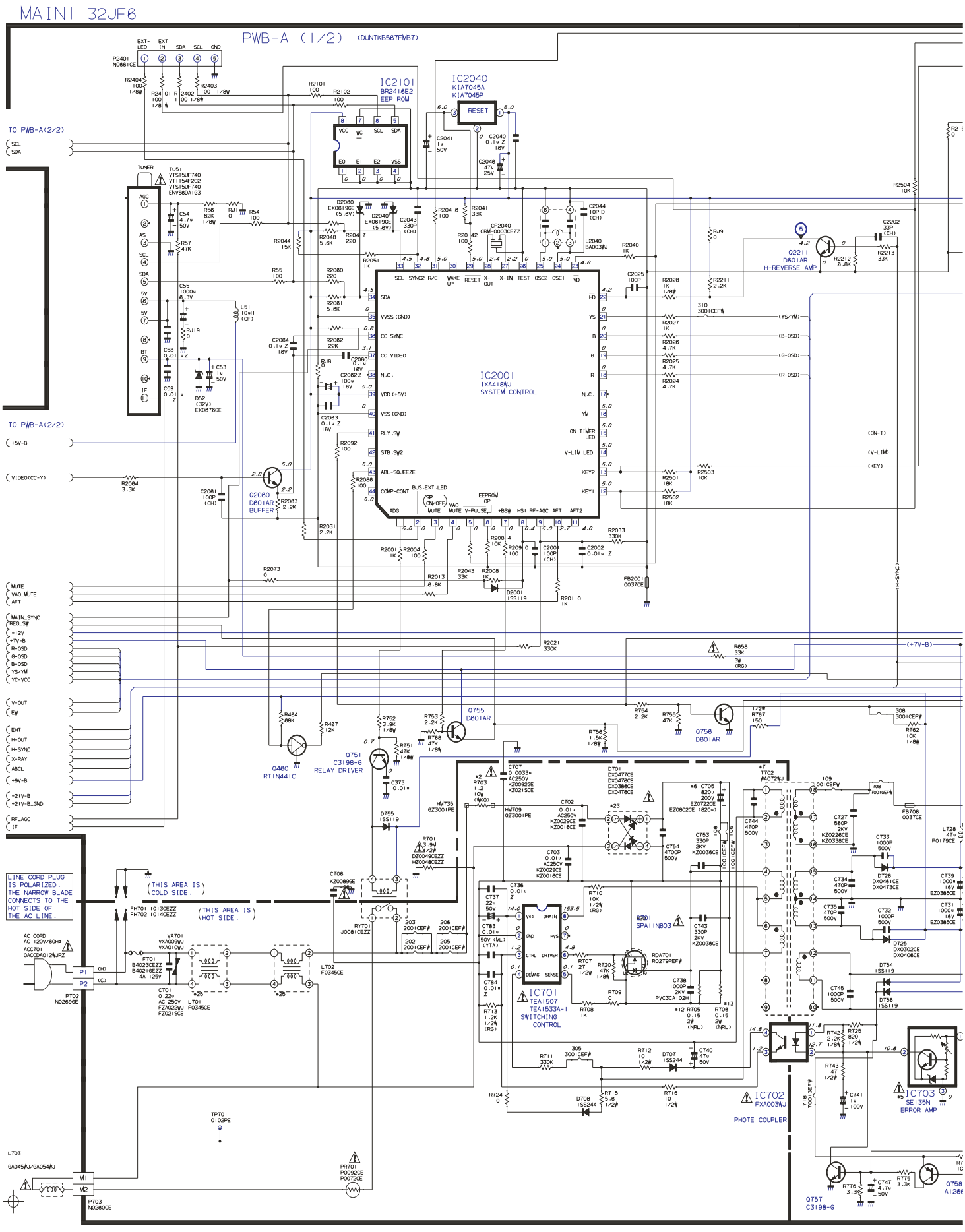


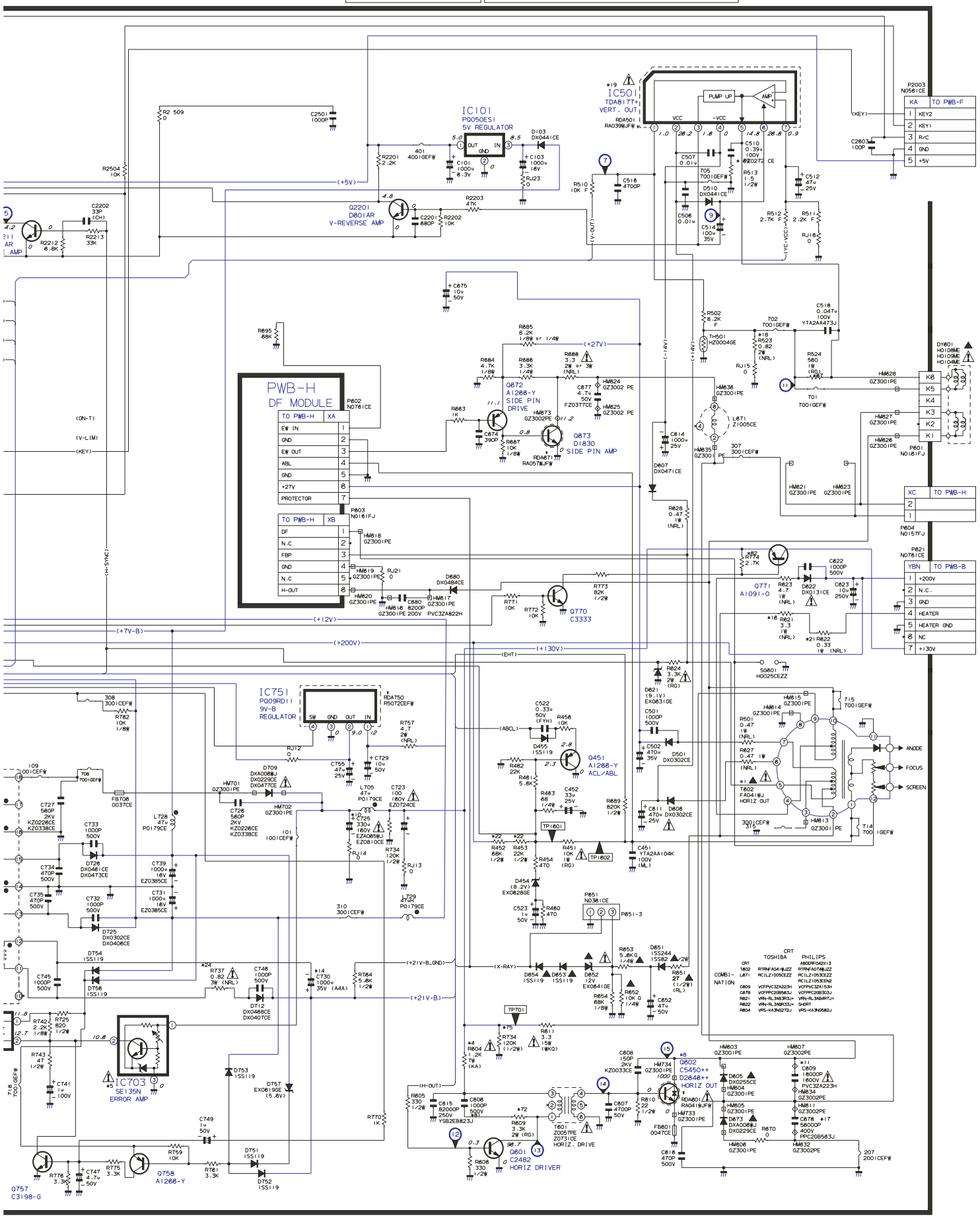
# BLOCK DIAGRAM(32UF6)

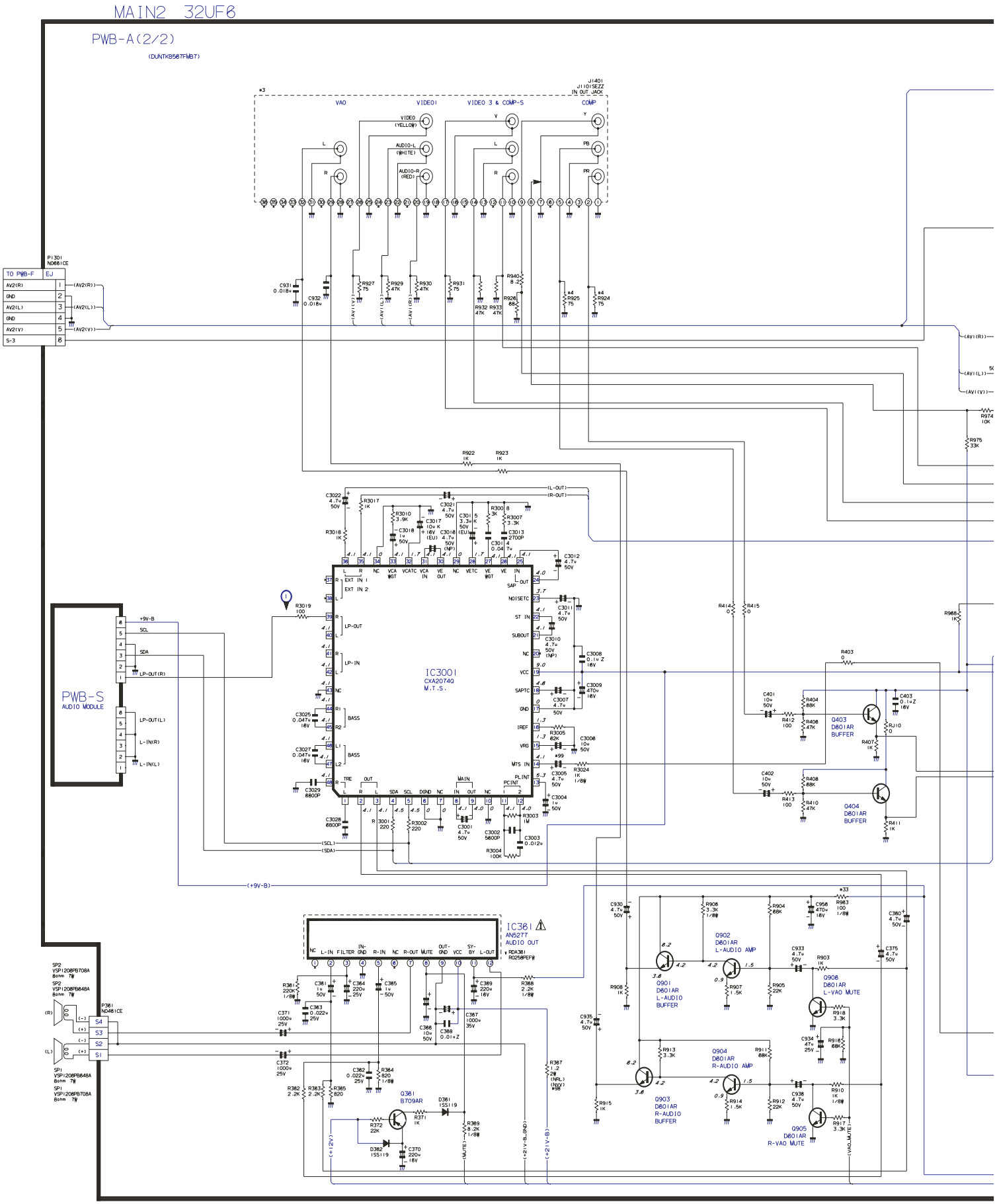


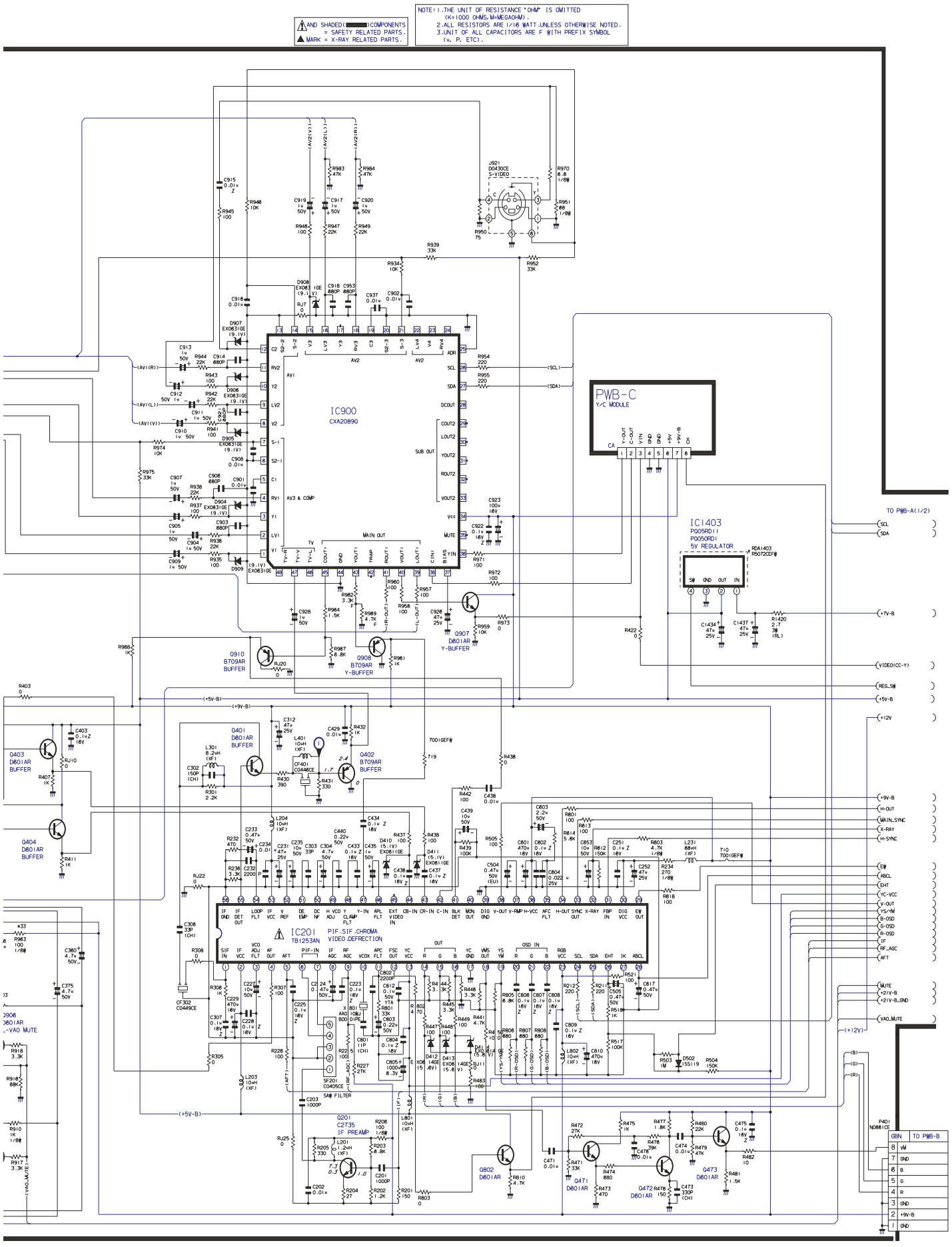
# 36UF6


AND SHADED( )COMPONENTS
= SAFETY RELATED PARTS.
MARK = X-RAY RELATED PARTS.
NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).
30.5KV (AT 2.0mA)
CRT
PWB-B
(DUNTKA527WEV9)
IC850
TDA8103Q
R.G.B OUT
REPLACE WITH A PICTURE TUBE OF THE SAME TYPE NUMBER FOR CONTINUED SAFETY.
FOCUS
ANODE
VB90AJZ90X+IE
SCREEN
GROUNDINGSTRAP
QEARCA009WJZZ
Q850
A1288-Y
VIDEO MUTE
Q851
C3198-G
VIDEO MUTE
Q1504
C3198-G
FINE DRIVE
Q1505
A1288-Y
FINE DRIVE
Q1508
A1984E
FINE OUT
Q1507
C5248E
FINE OUT
SVM COIL
TO PWB-A(2/2)
GBN
GND
+9V-B
R
G
B
VM
YBN
TO PWB-A(1/2)
+200V
NC
GND
HEATER
HEATER GND
+130V


MAIN 32UF6
PWB-A (1/2) (DUNTKB587FMB7)
IC2101
BR2418E2
EEP ROM
IC2040
KIA7045A
KIA7045P
RESET
IC2001
IXA418WJ
SYSTEM CONTROL
SCL SYNC2 R/C WAKE UP RESET X-OUT X-IN TEST OSC2 OSC1 VD
SDA
VSS (GND)
CC SYNC
CC VIDEO
N.C.
VDD (+5V)
VSS (GND)
RLY.SW
STB.SW2
ABL-SQUEEZE
COMP-CONT
BUS.EXT.LED
ADG
HD
YS
B
G
R
N.C.
YM
ON TIMER LED
V-LIM LED
KEY2
KEY1
EEPROM
TUNER
TU51
VTST54UF740
VTT154F202
VTST54UF740
EN1958DA163
TO PWB-A(2/2)
SCL
SDA
+5V-B
VIDEO1(CC-Y)
MUTE
VAO_MUTE
AFT
MAIN_SYNC
REG_SW
+12V
+7V-B
R-OSD
G-OSD
B-OSD
YS/YM
YC-VCC
V-OUT
EW
EHT
H-OUT
H-SYNC
X-RAY
ABCL
+9V-B
+21V-B
+21V-B_GND
RF_AGC
IF
Q2080
D801AR
BUFFER
Q480
RTN441C
Q751
C3198-G
RELAY DRIVER
Q755
D801AR
Q758
D801AR
Q2011
D801AR
H-REVERSE AMP
Q757
C3198-G
LINE CORD PLUG IS POLARIZED. THE NARROW BLADE CONNECTS TO THE HOT SIDE OF THE AC LINE.
(THIS AREA IS COLD SIDE.)
(THIS AREA IS HOT SIDE.)
AC CORD
AC 120V/60Hz
ACCT01
QACCDA012WJPZ
P1
P2
PT02
N02893GE
VA701
VXA009WJ
VXA010WJ
F701
B4023CEZZ
B4021GEZZ
4A 125V
C701
0.22u
AC 250V
FZA022WJ
FZ0215CE
L701
F0345CE
L702
F0345CE
TP701
0102PE
L703
GA045WJ/GA054WJ
M1
M2
PT03
N02860CE
PR701
P0092CE
P0072CE
IC701
TEA1507
TEA1533A-1
SWITCHING CONTROL
IC702
FXA003WJ
PHOTE COUPLER
IC703
SE135N
ERROR AMP
RDA701
R0279PEFW
SPA11N80J
D755
1SS119
D2001
1SS119
D707
1SS244
D708
1SS244
D754
1SS119
D758
1SS119
D726
DX0461CE
DX0473CE
D725
DX0302CE
DX0408CE
FB2001
0037CE
FB708
0037CE
L728
47u
P0179CE
T702
WA072WJ
T703
WA073WJ
(YS/YM)
(B-OSD)
(G-OSD)
(R-OSD)
(ON-T)
(V-LIM)
(KEY)
(H-SYNC)
(+7V-B)


AND SHADED( ) COMPONENTS = SAFETY RELATED PARTS.
MARK = X-RAY RELATED PARTS.
NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).
IC101 P0050ESI 5V REGULATOR
IC501 TDA8177+ VERT. OUT
PUMP UP
AMP
VCC
-VCC
P2003 N0581CE
KA TO PWB-F
KEY2
KEY1
R/C
GND
+5V
PWB-H DF MODULE
P802 N0761CE
TO PWB-H XA
EW IN
GND
EW OUT
ABL
GND
+27V
PROTECTOR
P803 N0181FJ
TO PWB-H XB
DF
N.C
FBP
GND
N.C
H-OUT
Q872 A1268-Y SIDE PIN DRIVE
Q873 D1830 SIDE PIN AMP
Q770 C3333
Q771 A1091-O
Q801 C2482 HORIZ DRIVER
Q602 C5450++ D2648++ HORIZ OUT
Q758 A1268-Y
Q757 C3198-G
IC751 P009RDII 9V-B REGULATOR
IC703 SE135N ERROR AMP
XC TO PWB-H
P804 N0157FJ
YBN TO PWB-B
+200V
N.C.
GND
HEATER
HEATER GND
NC
+130V
P821 N0781CE
P801 N0181FJ
DY601 H0109ME H0109ME H0104ME
K6
K5
K4
K3
K2
K1
ANODE
FOCUS
SCREEN
CRT
TOSHIBA
PHILIPS
COMBI-NATION
(+5V)
(+27V)
(+14V)
(-14V)
(+12V)
(+7V-B)
(+200V)
(+130V)
(+21V-B..GND)
(+21V-B)
(X-RAY)
(H-OUT)
(V-OUT)
(V-LIN)
(V-S-VCC)
(H-SYNC)
(ON-T)
(KEY)
(EHT)
(ABCL)

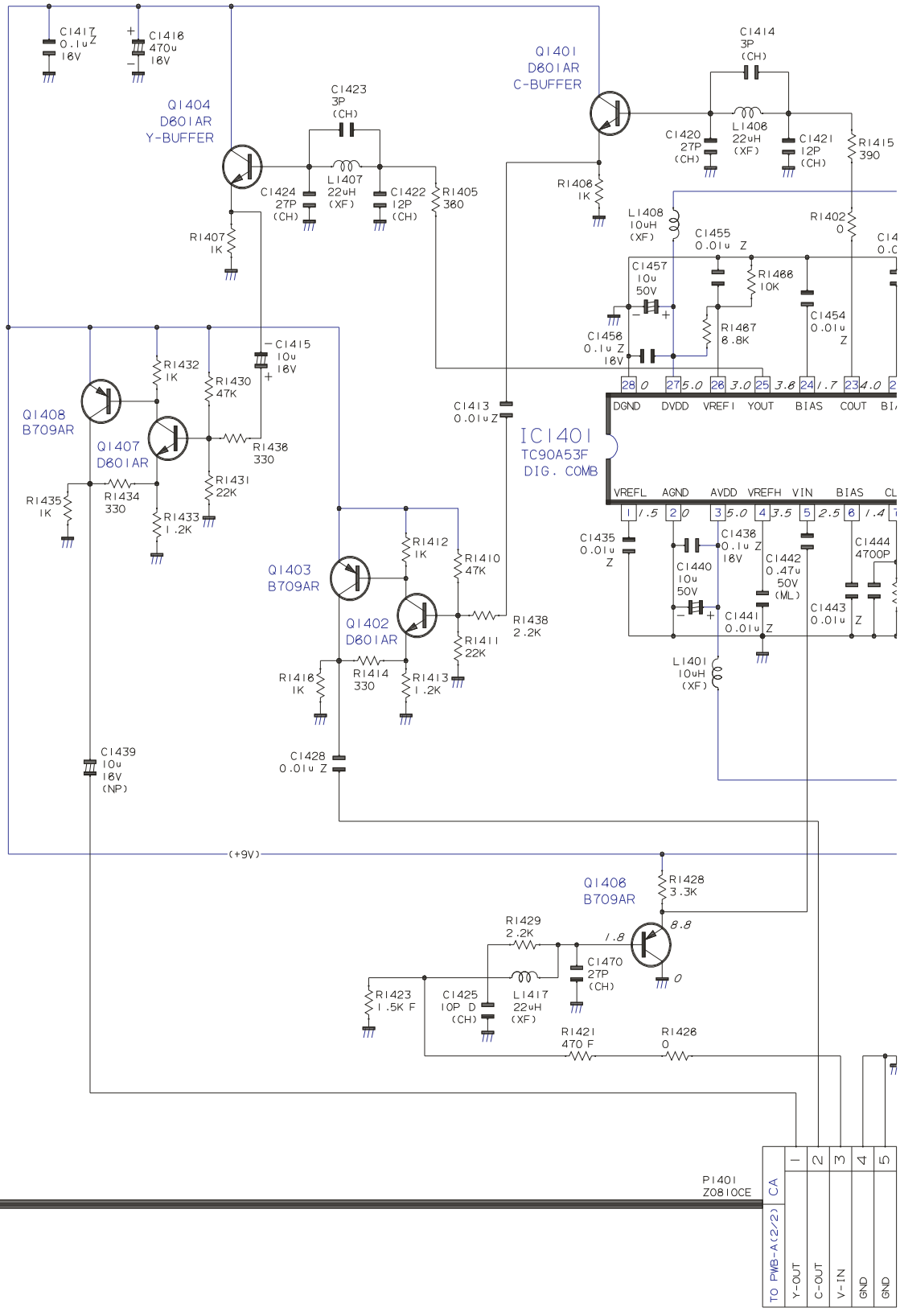

MAIN2 32UF6
PWB-A(2/2)
(DUNTKB567FMB7)
VAO
VIDEO1
VIDEO 3 & COMP-S
COMP
VIDEO (YELLOW)
AUDIO-L (WHITE)
AUDIO-R (RED)
TO PWB-F
EJ
AV2(R)
AV2(L)
AV2(V)
S-3
IC3001
CXA2074Q
M.T.S.
EXT IN 1
EXT IN 2
LP-OUT
LP-IN
BASS
TRE
MAIN
SAP
NOISETC
ST IN
SUBOUT
SAPTC
IREF
VRG
MTS IN
PLINT
PCINT
PWB-S
AUDIO MODULE
+9V-B
SCL
SDA
LP-OUT(R)
LP-OUT(L)
L-IN(R)
L-IN(L)
IC381
AN5277
AUDIO OUT
L-IN FILTER GND
IN-
R-IN
R-OUT
MUTE
OUT-
GND
VCC
SY-
BY
L-OUT
Q901
D801AR
L-AUDIO
BUFFER
Q902
D801AR
L-AUDIO AMP
Q903
D801AR
R-AUDIO
BUFFER
Q904
D801AR
R-AUDIO AMP
Q905
D801AR
R-VAO MUTE
Q906
D801AR
L-VAO MUTE
Q403
D801AR
BUFFER
Q404
D801AR
BUFFER
Q381
B709AR
(+12V)
(MUTE)
(+21V-B(GND))
(+21V-B)
(VAO_MUTE)
(L-OUT)
(R-OUT)
(SCL)
(SDA)
(+9V-B)


NOTE:1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).
AND SHADED( )COMPONENTS = SAFETY RELATED PARTS.
MARK = X-RAY RELATED PARTS.
IC900
CXA20890
PWB-C
Y/C MODULE
IC1403
P005RD11
5V REGULATOR
IC201
TB1253AN
PIF.SIF.CHROMA
VIDEO.DEFRECTION
TO PWB-A(1/2)
Q907
D801AR
Y-BUFFER
Q908
B709AR
Y-BUFFER
Q910
B709AR
BUFFER
Q401
D801AR
BUFFER
Q402
B709AR
BUFFER
Q403
D801AR
BUFFER
Q404
D801AR
BUFFER
Q201
C2735
IF PREAMP
Q802
D801AR
Q471
D801AR
Q472
D801AR
Q473
D801AR
SAW FILTER
SF201
C04005CE
CF302
C0449CE
CF401
C0448CE
D502
1SS119
P401
N0881CE
GBN
TO PWB-B
8 VM
7 GND
6 B
5 G
4 R
3 GND
2 +9V-B
1 GND

# 3-LINE Y/C 32UF6

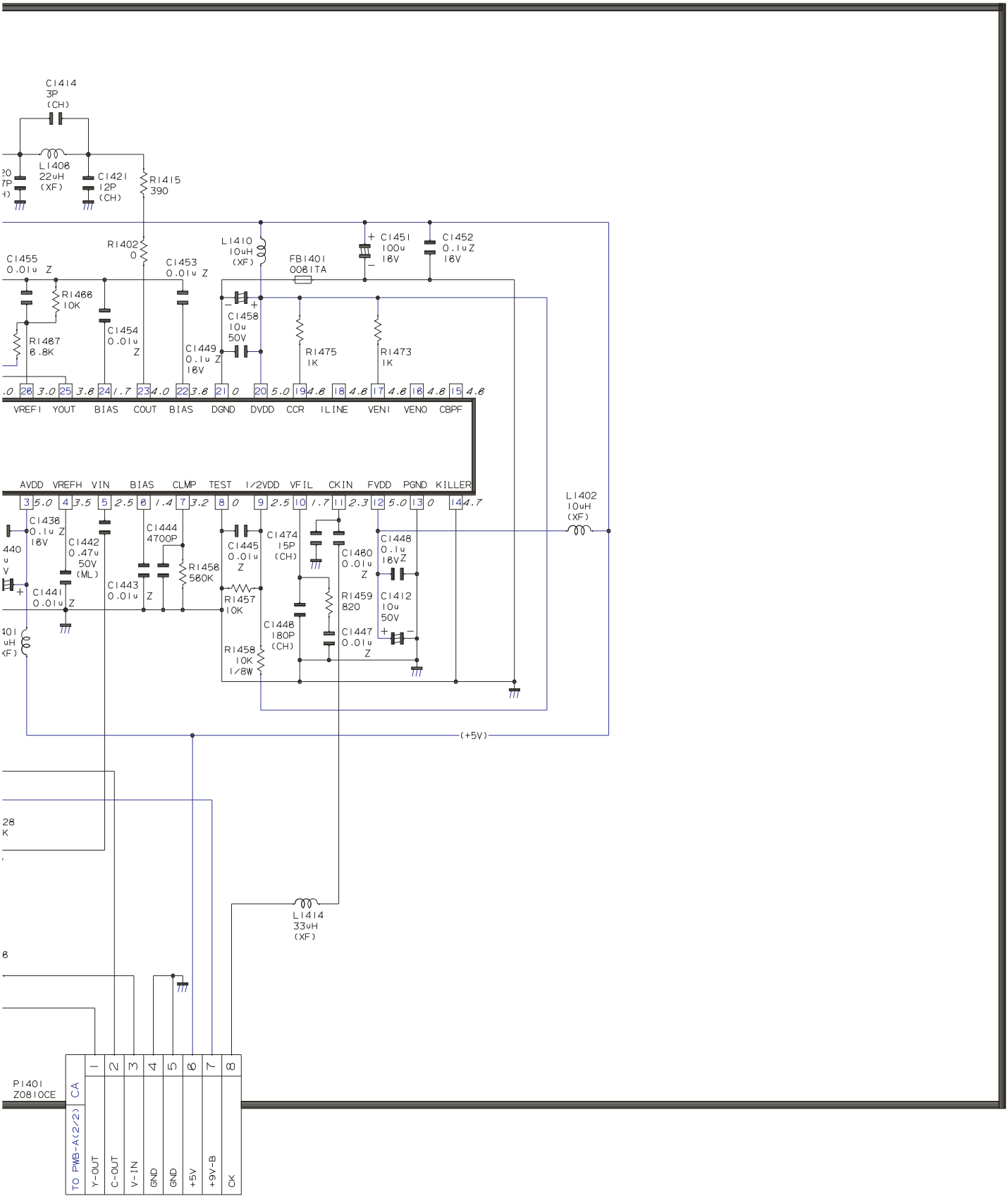
AND SHADED( ) COMPONE
= SAFETY RELATED PAR
MARK = X-RAY RELATED PART

## PWB-C
(DUNTKB573WEVOG)



ND SHADED( )COMPONENTS
= SAFETY RELATED PARTS.
ARK = X-RAY RELATED PARTS.

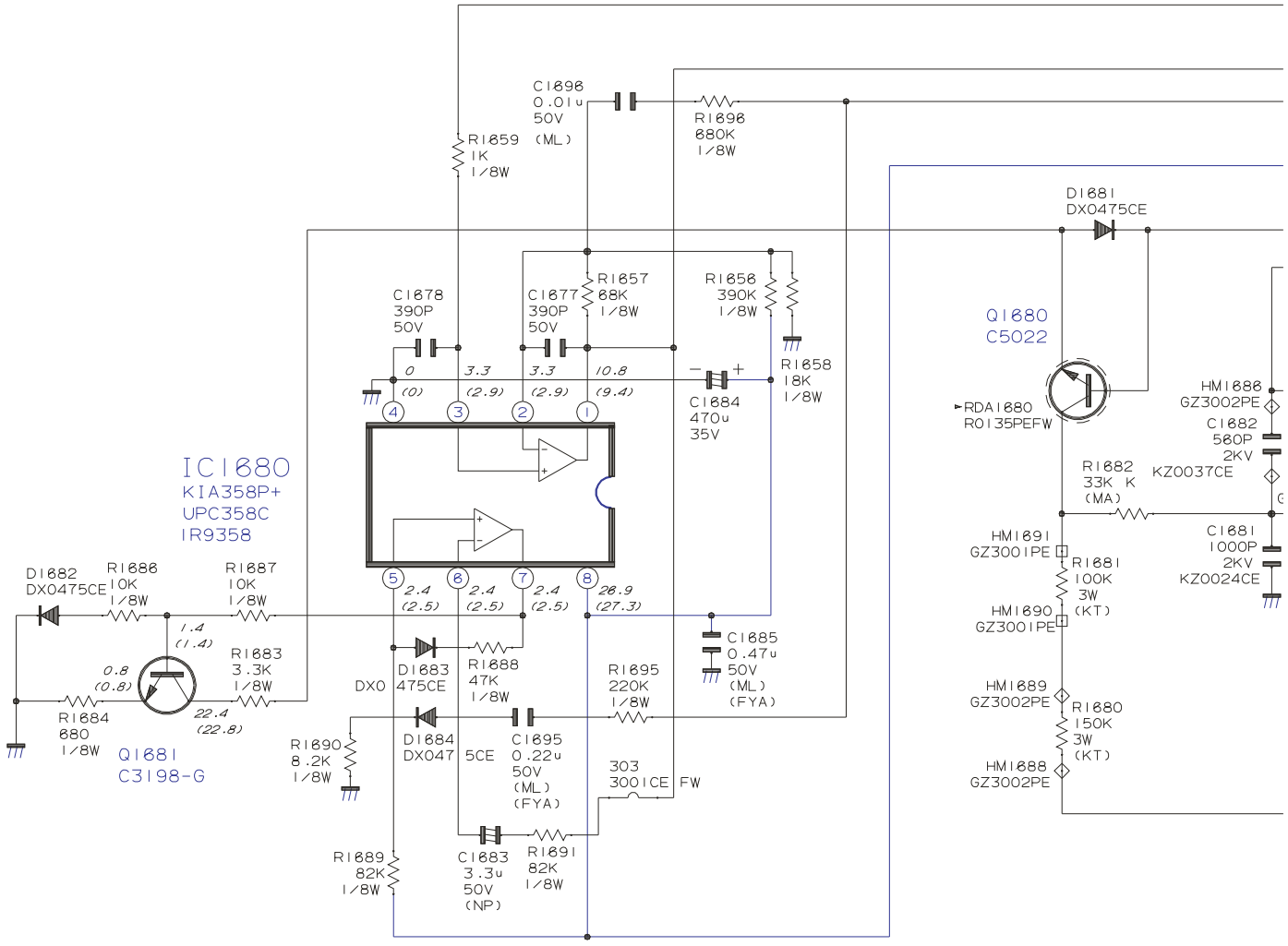
NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE 1/16 WATT.UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).



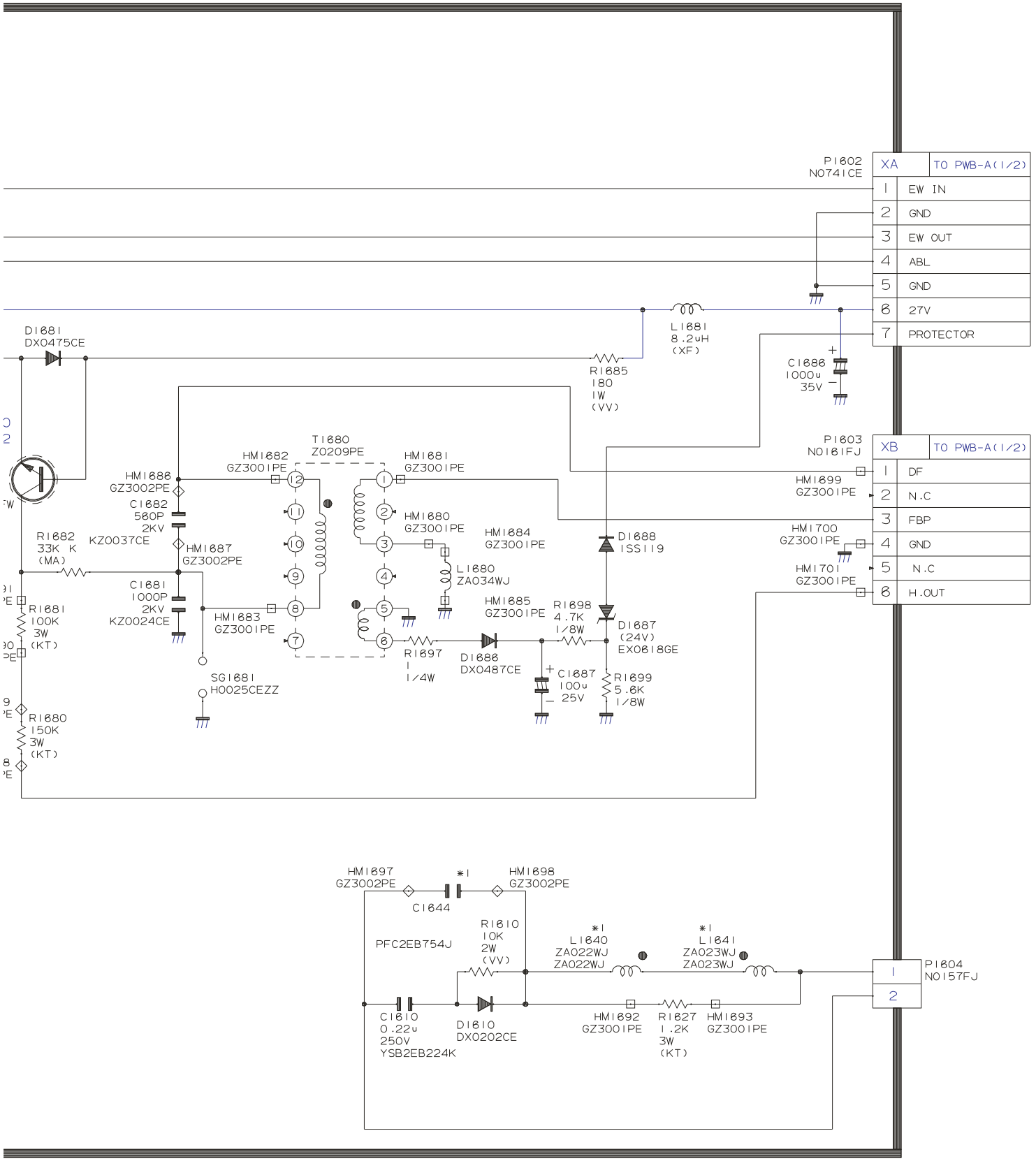
NOTE :

# DF MODULE 32UF6

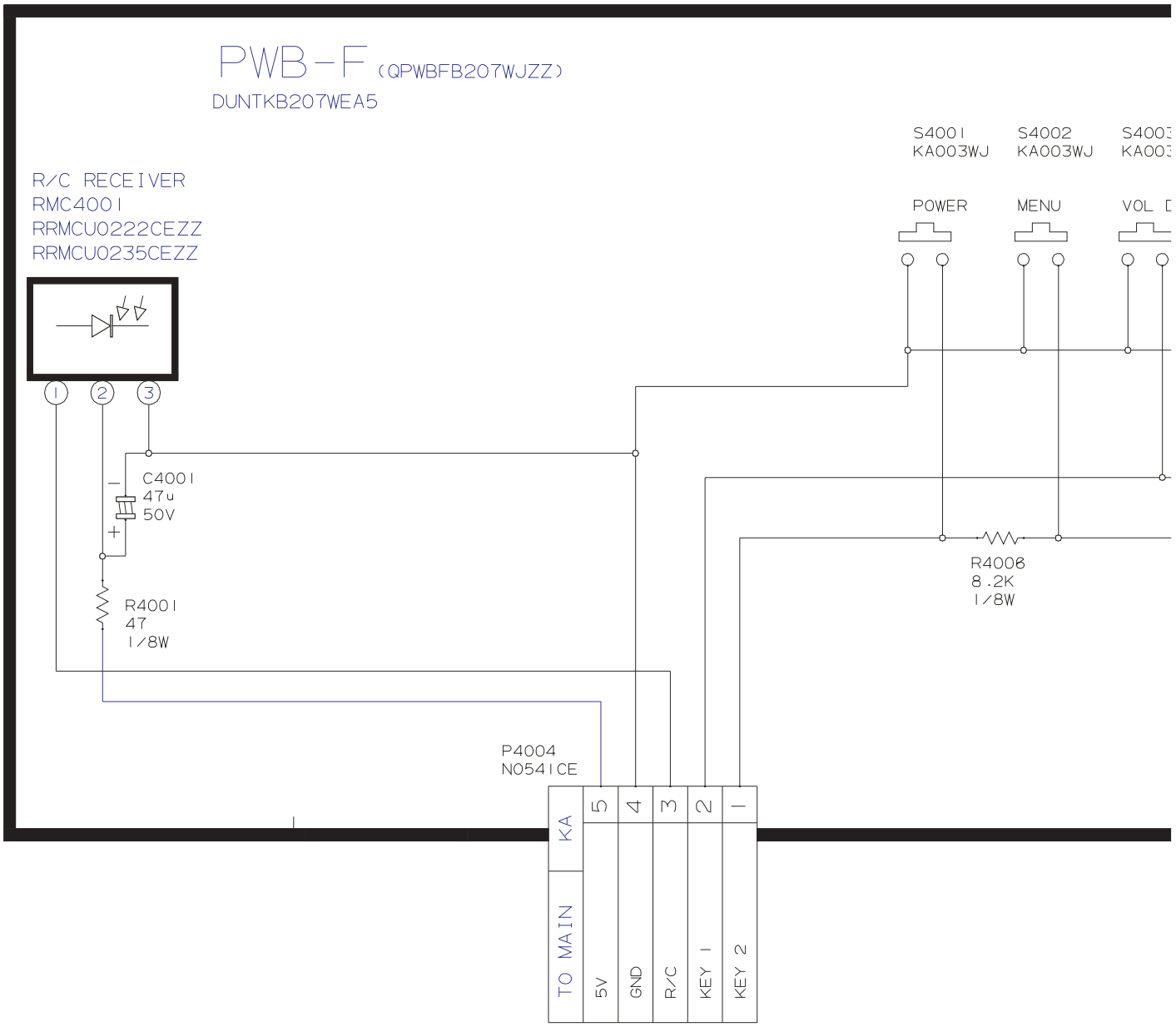
## PWB-H
(DUNTKB569WEV2G)



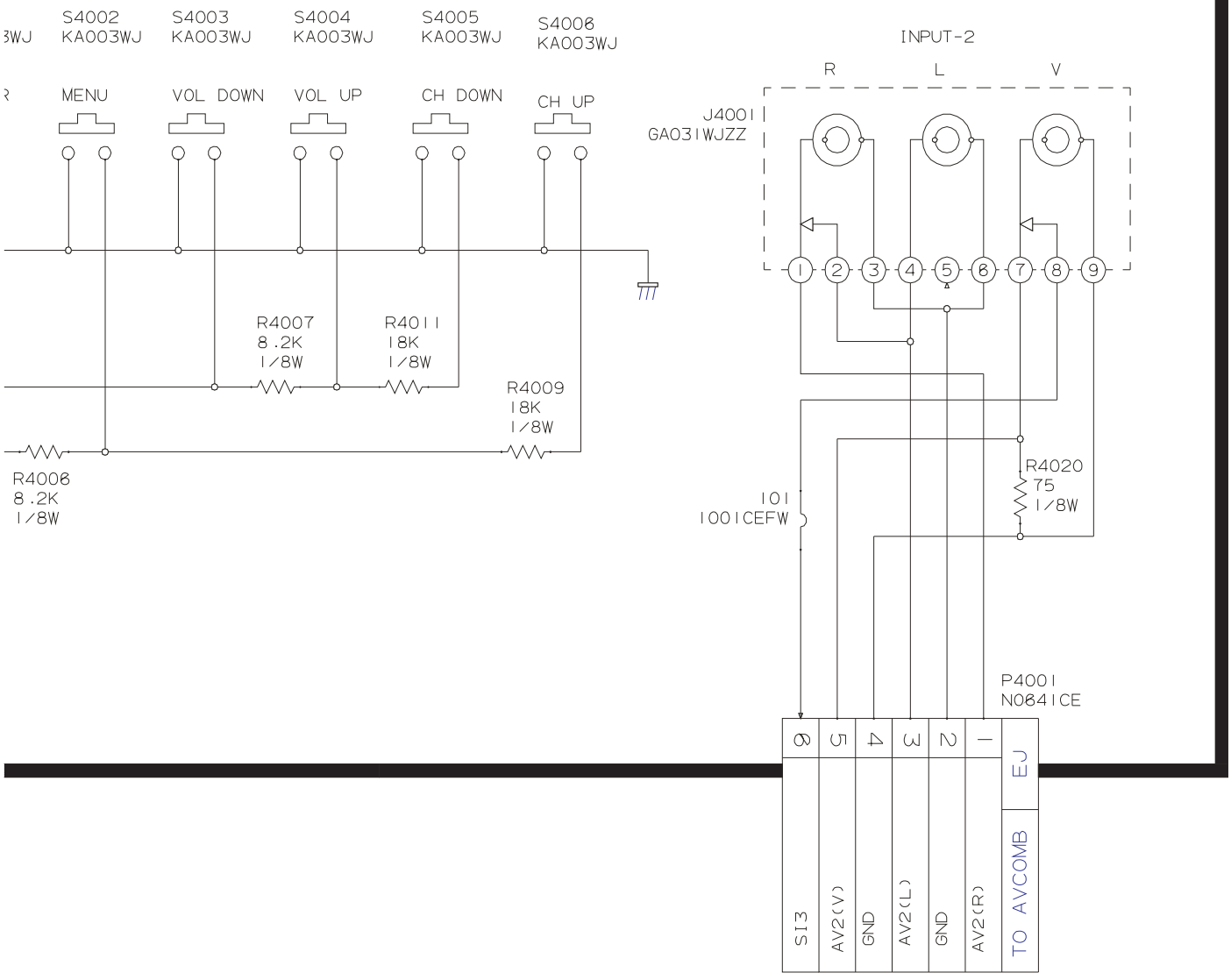
NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS. M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).



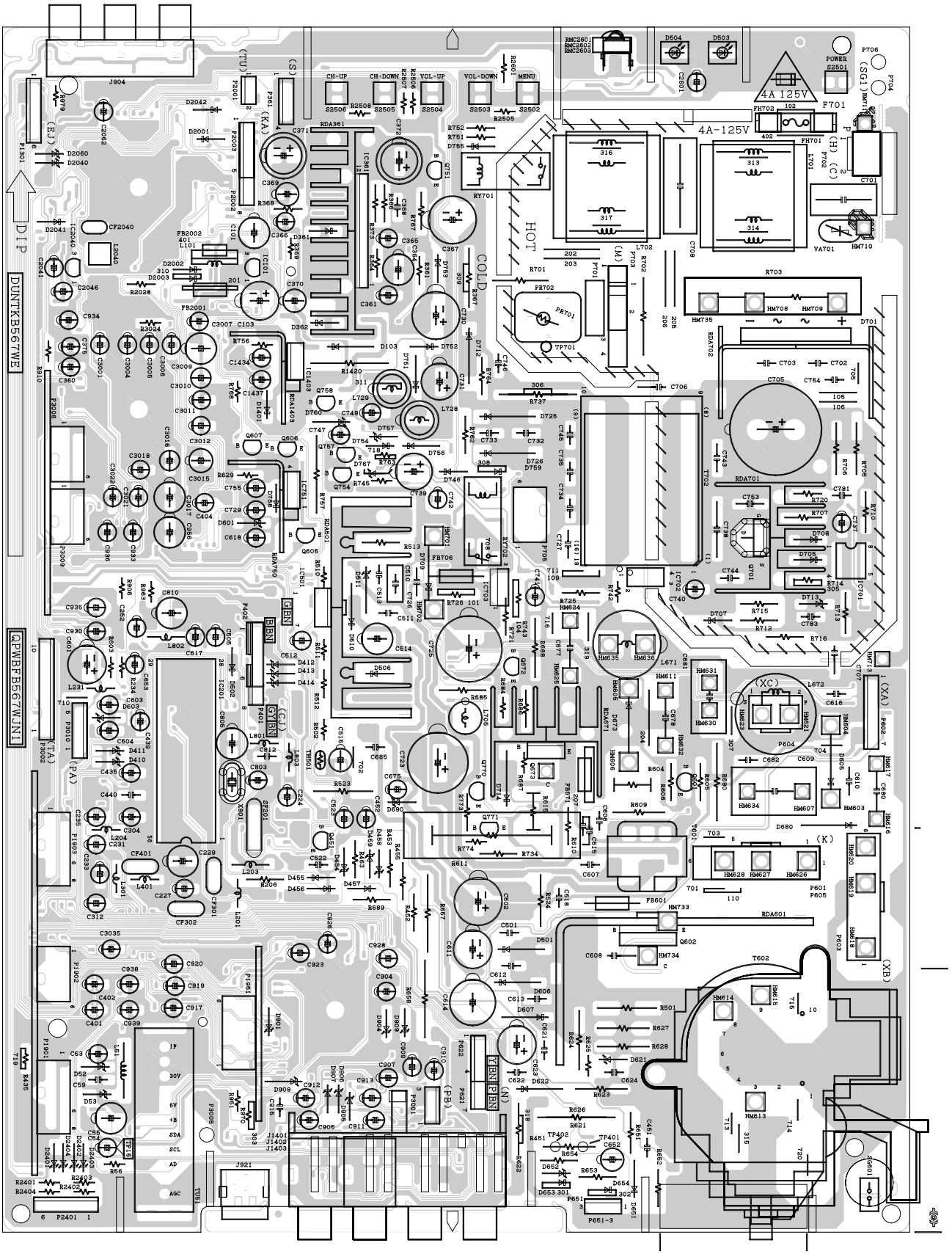
# CONTROL 32UF6

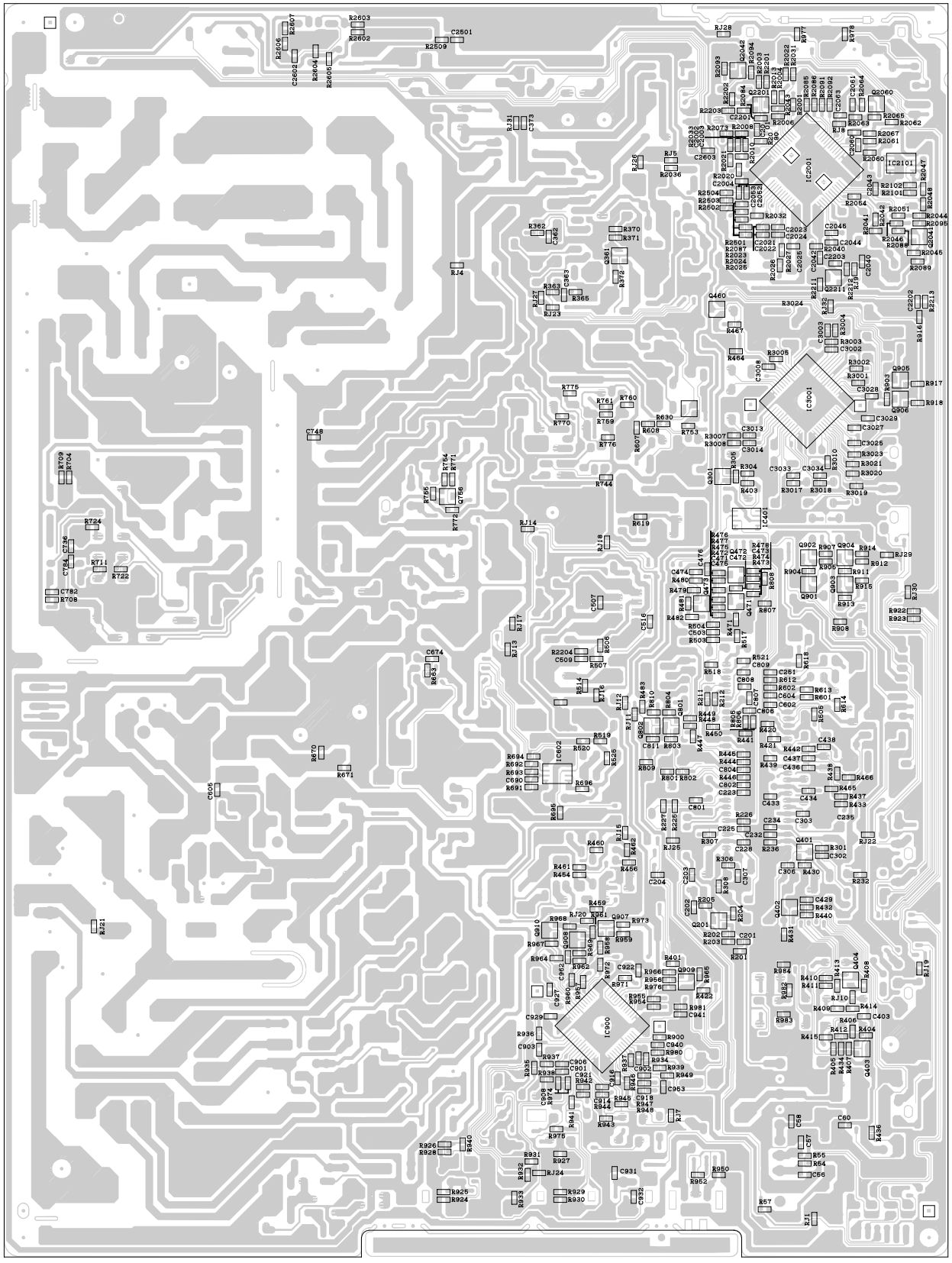


NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

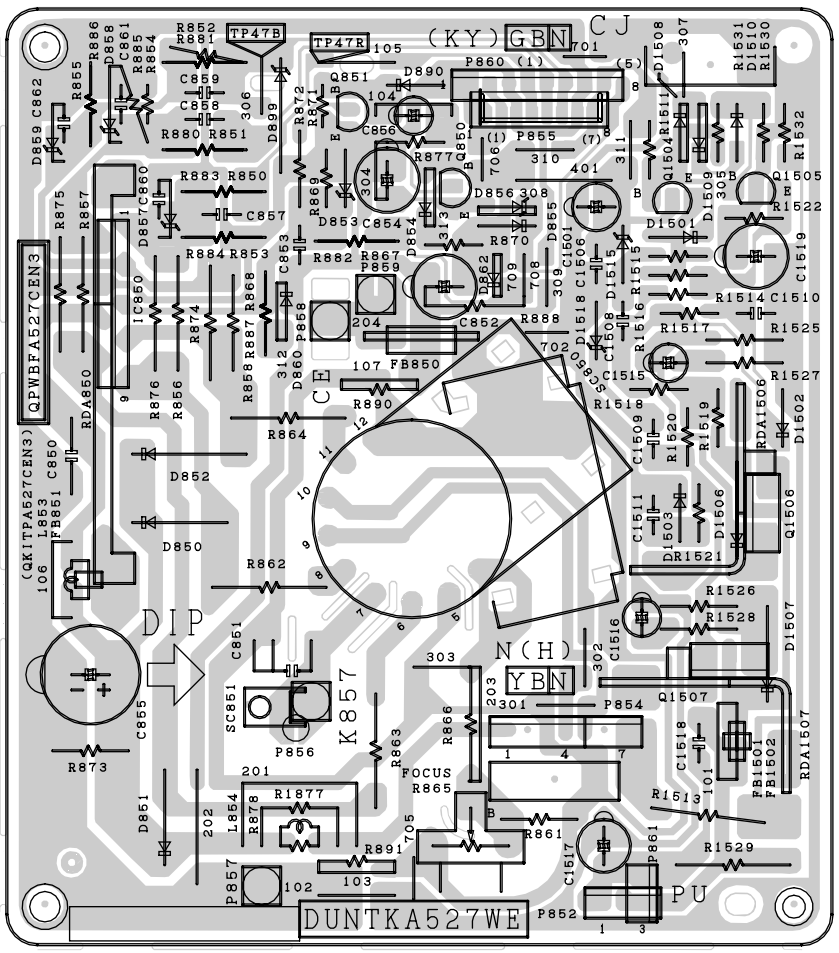


# PRINTED WIRING BOARD ASSEMBLIES

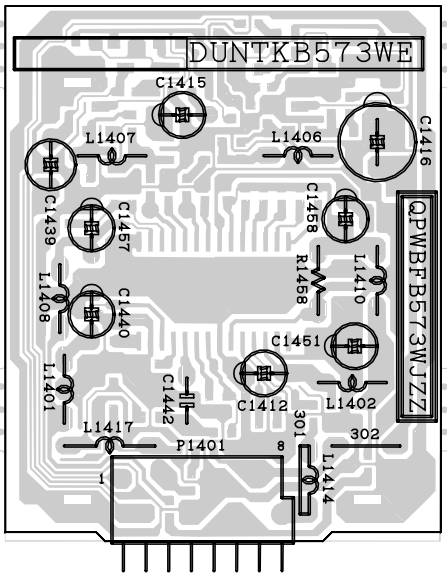




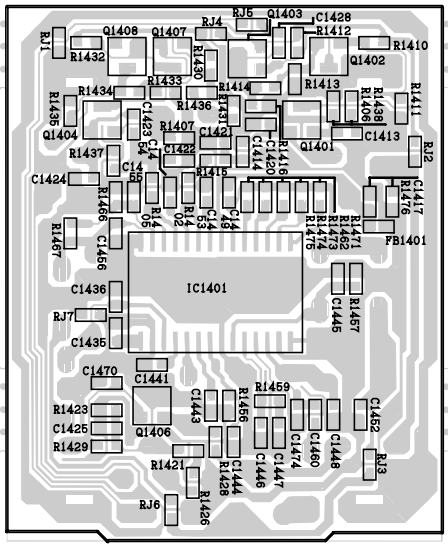
**PWB-A: MAIN Unit (Chip Parts Side)**



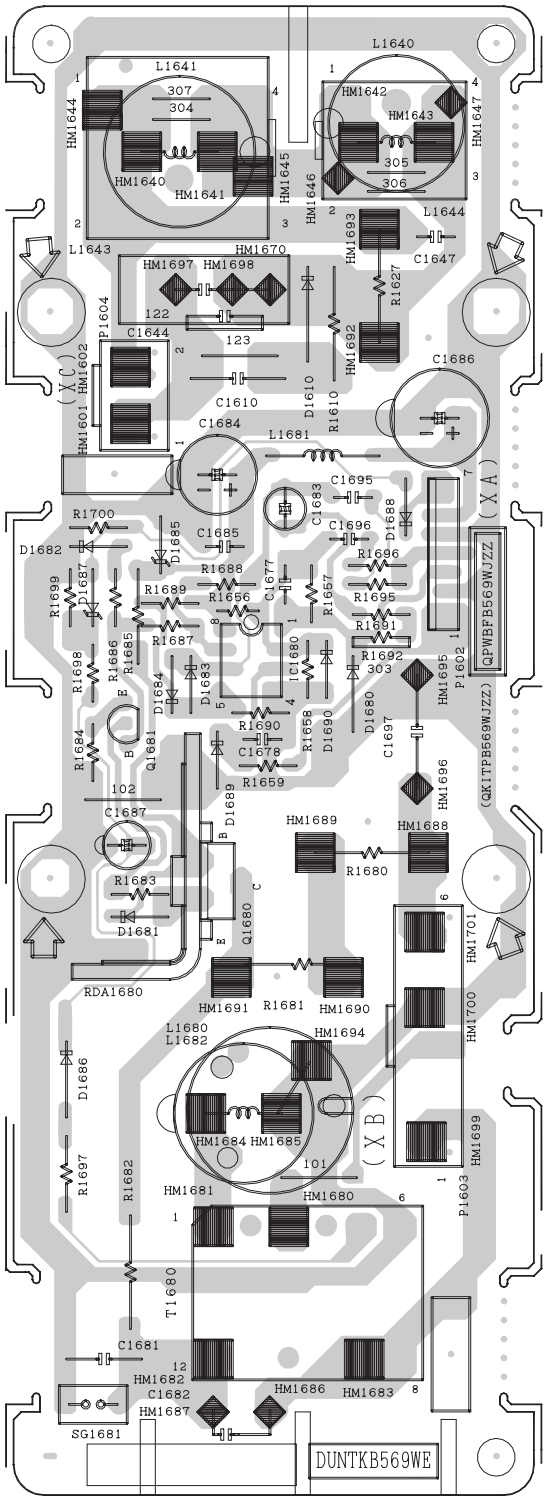

**PWB-B: CRT Unit (Wiring Side)**



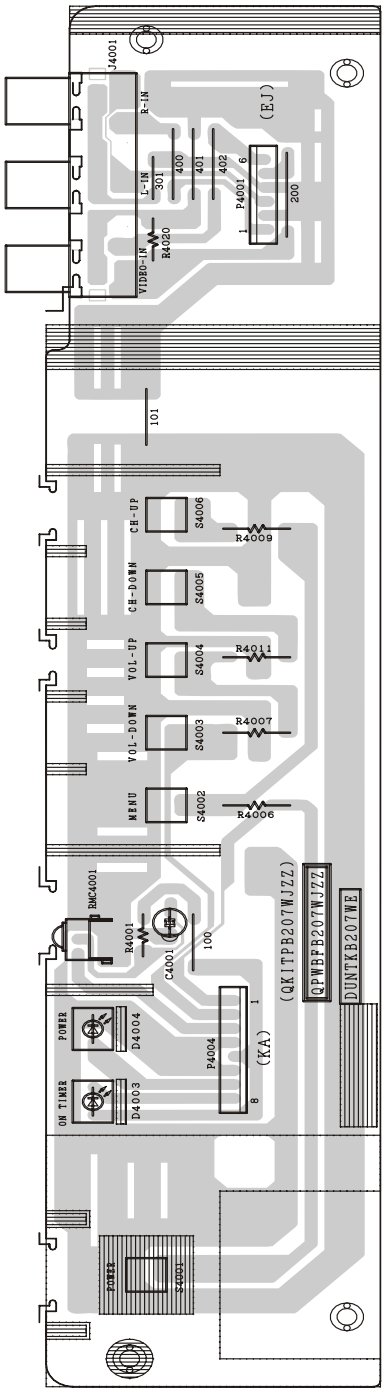

**PWB-C: 3-LINE Y/C Unit (Wiring Side)**




**PWB-C: 3-LINE Y/C Unit (Chip Parts Side)**




**PWB-H: DF MODULE Unit (Wiring Side)**




**PWB-F: CONTROL Unit(32F631 ONLY)**
**(Wiring Side)**

# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual ; electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★ MARK: SPARE PARTS-DELIVERY SECTION

**▲ MARK: X-RAY RELATED PARTS**

| | Ref. No. | Part No. | « | Description | Code |
|---|---|---|---|---|---|
| ▲ | ⚠ V101 | VB80ERF042X1E | X | Picture Tube | CS |
| | ⚠ L703 | RCiLGA045WJZZ | X | Degaussing Coil | AM |
| | | QEARCA006WJZZ | X | Ground-Part | AD |

With CRT Combination

| CRT | Part No. | | | Ref. |
|---|---|---|---|---|
| VB80AJZ90X+3E | VCFPFA2EB684J | 0.68 | 250V | C1644 |
| | VCFPVC3ZA223H | 0.022 | 1500V | C609 |
| | VCQPPC2GB563J | 0.056 | 400V | C678 |
| | VRD-RA2BE183JY | 18k | 1/8W | R1658 |
| | VRS-KA3NG272J | 1.2k | 7W | R604 |
| | VRN-RL3AB3R3J+ | 3.3 | 1W | R621 |
| | VRN-RL3ABR33J+ | 0.33 | 1W | R622 |
| | RCILZA023WJZZ | COIL | | L1641 |
| | RCILZ1005CEZZ | LINEARITY COIL | | L671 |
| | RTRNFA041WJZZ | H-Volt Transformer | | T602 |

## PRINTED WIRING BOARD ASSEMBLIES
## *(NOT REPLACEMENT ITEM)*

| | | | | |
|---|---|---|---|---|
| PWB-A | DUNTKB567WEB7 | — | Main Uni32UF6 | — |
| PWB-B | DUNTKA527WEV9 | — | CRT Unit | — |
| PWB-C | DUNTKB573WEV0 | — | 3-Line Y/C Unit | — |
| PWB-F | DUNTKB207WEA5 | — | Control Unit(32UF6) | — |
| PWB-H | DUNTKB569WEV2 | — | DF Module Unit | — |

Ref. No. Part No. ★ Description Code

# PWB-A: DUNTKB567WEB7(32UF6) MAIN UNIT

## TUNER

***NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.***

| | | | | | |
|---|---|---|---|---|---|
| | TU51 | VTUVT1T5UF202 | X | Tuner | AP |

## INTEGRATED CIRCUITS

| | | | | | |
|---|---|---|---|---|---|
| | IC101 | VHIPQ050ES1-1+ | X | PQ050ES1MXP | AB |
| ▲ | ⚠ IC201 | VHITB1253AN-1 | X | TB1253AN | AP |
| | ⚠ IC361 | VHIAN5277//-1 | X | AN5277 | AG |
| | ⚠ IC501 | VHITDA8177+-1 | X | TDA8177 | AE |
| | ⚠ IC701 | VHITEA1507/-1 | X | TEA1507P/N1 | AE |
| | ⚠ IC702 | RH-FXA003WJZZ | X | PC123Y82 | AB |
| ▲ | ⚠ IC703 | VHISE135N++-F | X | I.C. | AD |
| | IC751 | VHIPQ09RD11-1 | X | PQ09RD11 | AD |
| | IC900 | VHICXA2089Q-2Y | X | CXA2089Q-6T | AK |
| | IC1403 | VHIPQ05RD11-1 | X | PQ05RD11 | AD |
| | IC2001 | RH-IXA418WJZZQ | X | TMP88CS38BFG | AN |
| | IC2040 | VHIKIA7045A-1+ | X | KIA7045AP | AB |
| | IC2101 | VHIBR24L16F-1Y | X | BR24C16F | AC |
| | IC3001 | VHICXA2074Q-1Y | X | CXA2074Q | AP |

## TRANSISTORS

| | | | | | |
|---|---|---|---|---|---|
| | Q201 | VS2SC2735//1EY | X | 2SC2735 | AB |
| | Q361 | VS2SB709AR/-1Y | X | 2SB709AR | AB |
| | Q401 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q402 | VS2SB709AR/-1Y | X | 2SB709AR | AB |
| | Q403 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q404 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q451 | VS2SA1266-Y-1+ | X | 2SA1266-Y | AB |
| | Q460 | VSRT1N441C/-1Y | X | RT1N441C | AB |
| | Q471 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q472 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q473 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q601 | VS2SC2482//-1+ | X | 2SC2482 | AB |
| | ⚠ Q602 | VS2SC5931++-F | X | 2SC5931 | AG |
| | Q672 | VS2SA1266-Y-1+ | X | 2SA1266-Y | AB |
| | Q673 | VS2SD1830//1E | X | 2SD1830 | AD |
| | ⚠ Q701 | VSSPA11N603-1 | X | SPA11N603 | AK |
| | Q751 | VS2SC3198-G-1+ | X | 2SC3198-G | AB |
| | Q755 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q756 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q757 | VS2SC3198-G-1+ | X | 2SC3198-G | AB |
| | Q758 | VS2SA1266-Y-1+ | X | 2SA1266-Y | AB |
| | Q770 | VS2SC3333//-1+ | X | 2SC3333 | AB |
| | Q771 | VS2SA1091-O1A+ | X | 2SA1091-O1 | AC |
| | Q802 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q901 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q902 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q903 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q904 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q905 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q906 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q907 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q908 | VS2SB709AR/-1Y | X | 2SB709AR | AB |
| | Q910 | VS2SB709AR/-1Y | X | 2SB709AR | AB |
| | Q2060 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q2201 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| | Q2211 | VS2SD601AR/-1Y | X | 2SD601AR | AB |

## DIODES

| | | | | | | |
|---|---|---|---|---|---|---|
| D52 | RH-EX0676GEZZY | X | Zener | Diode | 32V | AB |
| D103 | RH-DX0441CEZZY | X | Diode | | | AB |
| D361 | VHD1SS119//-1Y | X | Diode | | | AA |
| D362 | VHD1SS119//-1Y | X | Diode | | | AA |
| D410 | RH-EX0611GEZZY | X | Zener | Diode | 5.1V | AB |
| D411 | RH-EX0611GEZZY | X | Zener | Diode | 5.1V | AB |
| D412 | RH-EX0614GEZZY | X | Zener | Diode | 5.6V | AB |
| D413 | RH-EX0614GEZZY | X | Zener | Diode | 5.6V | AB |
| D414 | RH-EX0614GEZZY | X | Zener | Diode | 5.6V | AB |
| D454 | RH-EX0628GEZZY | X | Zener | Diode | 8.2V | AB |
| D455 | VHD1SS119//-1Y | X | Diode | | | AA |

# PWB-A: DUNTKB567WEB7(32UF6)

## MAIN UNIT

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| D501 | RH-DX0302CEZZY | X | Diode | | | AB |
| D502 | VHD1SS119//-1Y | X | Diode | | | AA |
| D510 | RH-DX0441CEZZY | X | Diode | | | AB |
| ⚠ D605 | RH-DX0255CEZZ | X | Diode | | | AD |
| ⚠ D606 | RH-DX0302CEZZY | X | Diode | | | AB |
| D607 | RH-DX0471CEZZY | X | Diode | | | AB |
| D621 | RH-EX0631GEZZY | X | Zener | Diode | 9.1V | AB |
| ⚠ D622 | RH-DX0131CEZZY | X | Diode | | | AB |
| ▲ ⚠ D651 | VHD1SS244//-1Y | X | Diode | | | AB |
| ▲ ⚠ D652 | RH-EX0641GEZZY | X | Zener | Diode | 12V | AB |
| ▲ ⚠ D653 | VHD1SS119//-1Y | X | Diode | | | AA |
| ▲ ⚠ D654 | VHD1SS119//-1Y | X | Diode | | | AA |
| ⚠ D673 | RH-DXA006WJZZ | X | Diode | | | AB |
| D680 | RH-DX0484CEZZ | X | Diode | | | AC |
| ⚠ D701 | RH-DX0477CEZZ | X | Diode | | | AD |
| D707 | VHD1SS244//-1Y | X | Diode | | | AB |
| D708 | VHD1SS244//-1Y | X | Diode | | | AB |
| ⚠ D709 | RH-DXA006WJZZ | X | Diode | | | AB |
| D712 | RH-DX0468CEZZ | X | Diode | | | AB |
| D725 | RH-DX0302CEZZY | X | Diode | | | AB |
| D726 | RH-DX0461CEZZ | X | Diode | | | AB |
| D751 | VHD1SS119//-1Y | X | Diode | | | AA |
| D752 | VHD1SS119//-1Y | X | Diode | | | AA |
| D753 | VHD1SS119//-1Y | X | Diode | | | AA |
| D754 | VHD1SS119//-1Y | X | Diode | | | AA |
| D755 | VHD1SS119//-1Y | X | Diode | | | AA |
| D756 | VHD1SS119//-1Y | X | Diode | | | AA |
| D757 | RH-EX0619GEZZY | X | Zener | Diode, | 6.2V | AB |
| D904 | RH-EX0631GEZZY | X | Zener | Diode | 9.1V | AB |
| D905 | RH-EX0631GEZZY | X | Zener | Diode | 9.1V | AB |
| D906 | RH-EX0631GEZZY | X | Zener | Diode | 9.1V | AB |
| D907 | RH-EX0631GEZZY | X | Zener | Diode | 9.1V | AB |
| D908 | RH-EX0631GEZZY | X | Zener | Diode | 9.1V | AB |
| D909 | RH-EX0631GEZZY | X | Zener | Diode | 9.1V | AB |
| D2001 | VHD1SS119//-1Y | X | Diode | | | AA |
| D2040 | RH-EX0619GEZZY | X | Zener | Diode, | 6.2V | AB |
| D2060 | RH-EX0619GEZZY | X | Zener | Diode, | 6.2V | AB |

### PACKAGED CIRCUITS

| | | | | | | |
|---|---|---|---|---|---|---|
| TH501 | RH-HZ0004GEZZ+ | X | Thermistor | | | AB |
| ⚠ VA701 | RH-VXA009WJZZ | X | Varistor | | | AB |
| ⚠ PR701 | RMPTP0092CEZZ | X | Packaged | | | AD |
| X801 | RCRSAA010WJZZ | X | Crystal | | | AC |

### FILTERS

| | | | | | | |
|---|---|---|---|---|---|---|
| CF302 | RFILC0449CEZZ+ | X | Filter | | | AB |
| CF401 | RFILC0446CEZZ+ | X | Filter | | | AB |
| SF201 | RFILC0405CEZZ | X | FILTER | (4.5MHZ) | | AD |

### COILS

| | | | | | | |
|---|---|---|---|---|---|---|
| L51 | VP-CF100K0000Y | X | Peaking, | 10mH | | AB |
| L201 | VP-XF1R2K0000Y | X | Peaking, | 1.2mH | | AB |
| L203 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L204 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L231 | VP-XF680K0000Y | X | Peaking, | 68mH | | AB |
| L301 | VP-XF8R2K0000Y | X | Peaking, | 8.2mH | | AB |
| L401 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L671 | RCILZ1053CEN2 | X | Coil | | | AD |
| L701 | RCILF0345CEZZ | X | Coil | | | AC |
| L702 | RCILF0345CEZZ | X | Coil | | | AC |
| L705 | RCILP0179CEZZ+ | X | Coil | | | AB |
| L728 | RCILP0179CEZZ+ | X | Coil | | | AB |
| L729 | RCILP0179CEZZ+ | X | Coil | | | AB |
| L801 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L802 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L2040 | RCILBA003WJZZ | X | Oscillation | Coil | | AB |

### TRANSFORMERS

| | | | | | | |
|---|---|---|---|---|---|---|
| ⚠ T601 | RTRNZ0057PEZZ | X | Transformer | | | AD |
| ▲ ⚠ T602 | RTRNFA074WJZZ | X | H-Volt Transformer | | | AW |
| ⚠ T702 | RTRNWA072WJZZ | X | Transformer | | | AH |

## CAPACITORS

*[EL.··· Electrolytic, M-Poly.··· Metalized Polypro Film]*

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C53 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C54 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C55 | VCEA0A0JW108M+ | X | 1000 | 6.3V | EL. | AB |
| C58 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C59 | VCKYPA1HF103Z+ | X | 0.01 | 50V | Ceramic | AA |
| C101 | VCEA0A0JW108M+ | X | 1000 | 6.3V | EL. | AB |
| C103 | VCEA0A1CW108M+ | X | 1000 | 16V | EL. | AB |
| C201 | VCKYCY1HB102KY | X | 1000p | 50V | Ceramic | AA |
| C202 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C203 | VCKYCY1HB102KY | X | 1000p | 50V | Ceramic | AA |
| C223 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C224 | VCEA0A1HW474M+ | X | 0.47 | 50V | EL. | AB |
| C225 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C227 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C228 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C229 | VCEA0A1CW477M+ | X | 470 | 16V | EL. | AB |
| C231 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C232 | VCKYCY1HB222KY | X | 2200p | 50V | Ceramic | AA |
| C233 | VCEA0A1HW474M+ | X | 0.47 | 50V | EL. | AB |
| C234 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C235 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C251 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C252 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C302 | VCCCCY1HH151JY | X | 150p | 50V | Ceramic | AA |
| C303 | VCCCCY1HH330JY | X | 33p | 50V | Ceramic | AA |
| C304 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C306 | VCCCCY1HH330JY | X | 33p | 50V | Ceramic | AA |
| C307 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C312 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C360 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C361 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C362 | VCKYCY1EB223KY | X | 0.022 | 25V | Ceramic | AA |
| C363 | VCKYCY1EB223KY | X | 0.022 | 25V | Ceramic | AA |
| C364 | VCEA0A1EW227M+ | X | 220 | 25V | EL. | AB |
| C365 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C366 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C367 | VCEA0A1VW108M+ | X | 1000 | 35V | EL. | AB |
| C368 | VCKYPA1HF103Z+ | X | 0.01 | 50V | Ceramic | AA |
| C369 | VCEA0A1CW227M+ | X | 220 | 16V | EL. | AB |
| C370 | VCEA0A1CW227M+ | X | 220 | 16V | EL. | AB |
| C371 | VCEA0A1EW108M+ | X | 1000 | 25V | EL. | AB |
| C372 | VCEA0A1EW108M+ | X | 1000 | 25V | EL. | AB |
| C373 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C375 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C401 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C402 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C403 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C429 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C433 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C434 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C435 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C436 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C437 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C438 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C439 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C440 | VCFYFA1HA224J+ | X | 0.22 | 50V | Mylar | AB |
| C451 | VCQYTA2AA104K+ | X | 0.1 | 100V | Mylar | AB |
| C452 | VCEA0A1EW336M+ | X | 33 | 25V | EL. | AB |
| C471 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C473 | VCCCCY1HH331JY | X | 330p | 50V | Ceramic | AB |
| C474 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C475 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C476 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C501 | VCKYPA2HB102K+ | X | 1000p | 500V | Ceramic | AB |
| C502 | VCEA0A1VW477M+ | X | 470 | 35V | EL. | AB |
| C504 | VCEACA1HC474M+ | X | 0.47 | 50V | EL. | AB |
| C505 | VCEA0A1HW474M+ | X | 0.47 | 50V | EL. | AB |
| C506 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C507 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |

# PWB-A: DUNTKB567WEB7(32UF6)
## MAIN UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C510 | RC-FZ0272CEZZ+ | X | 0.39 | 100V | Mylar | AB |
| C512 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C514 | VCEA0A1VW107M+ | X | 100 | 35V | EL. | AB |
| C516 | VCKYCY1HB472KY | X | 100 | 35V | EL. | AA |
| C518 | VCQYTA2AA473J+ | X | 0.047 | 100V | Mylar | AB |
| C522 | VCFYFA1HA334J+ | X | 0.33 | 50V | Mylar | AB |
| C523 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C601 | VCEA0A1CW477M+ | X | 470 | 16V | EL. | AB |
| C602 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C603 | VCEA0A1HW225M+ | X | 2.2 | 50V | EL. | AB |
| C604 | VCKYCY1EB223KY | X | 0.022 | 25V | Ceramic | AA |
| C606 | VCKYPA2HB102K+ | X | 1000p | 500V | Ceramic | AB |
| C607 | VCKYPA1HB472K+ | X | 4700p | 50V | Ceramic | AB |
| C608 | RC-KZ0033CEZZ | X | 150p | 2kV | Ceramic | AB |
| ▲ ⚠ C609 | VCFPVC3ZA153H | X | 0.015 | 1800V | M.Polypro | AB |
| C611 | VCEA0A1EW477M+ | X | 470 | 25V | EL. | AB |
| C614 | VCEA0A1EW108M+ | X | 1000 | 25V | EL. | AB |
| C615 | VCFYSB2EB823J | X | 0.082 | 250V | M.Polypro | AB |
| C616 | VCKYPA2HB471K+ | X | 470p | 500V | Ceramic | AB |
| C617 | VCEA0A1HW474M+ | X | 0.47 | 50V | EL. | AB |
| C622 | VCKYPA2HB102K+ | X | 1000p | 500V | Ceramic | AB |
| C623 | VCEA4A2EN106M+ | X | 10 | 250V | EL. | AB |
| C652 | VCEA0A1HW476M+ | X | 47 | 50V | EL. | AB |
| C653 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C674 | VCKYCY1HB391KY | X | 390p | 50V | Ceramic | AA |
| C675 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C677 | RC-FZ0377CEZZ | X | 4.7 | 50V | Mylar | AC |
| ▲ ⚠ C678 | VCQPPC2GB303J | X | 0.056 | 400V | Mylar | AB |
| C680 | VCFPVC3ZA822H | X | 8200p | 1500V | M.Polypro | AB |
| ⚠ C701 | RC-FZA022WJZZ | X | 0.22 | AC250V | M.Polypro | AB |
| C702 | RC-KZ0029CEZZ+ | X | 0.01 | AC250V | Ceramic | AB |
| C703 | RC-KZ0029CEZZ+ | X | 0.01 | AC250V | Ceramic | AB |
| ⚠ C705 | RC-EZ0722CEZZ | X | 820 | 200V | EL. | AG |
| ⚠ C706 | RC-KZ0089GEZZA | X | 1000p | AC250V | Ceramic | AB |
| ⚠ C707 | RC-KZ0092GEZZA | X | 3300p | AC250V | Ceramic | AB |
| ⚠ C723 | RC-EZ0724CEZZ | X | 100 | 160V | EL. | AC |
| ⚠ C725 | RC-EZA065WJZZ | X | 330 | 160V | EL. | AE |
| C726 | RC-KZ0226CEZZ+ | X | 560p | 2kV | Ceramic | AB |
| C727 | RC-KZ0226CEZZ+ | X | 560p | 2kV | Ceramic | AB |
| C729 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C730 | VCEA4A1VN108M+ | X | 1000 | 35V | EL. | AC |
| C731 | RC-EZ0385CEZZ+ | X | 1000 | 16V | EL. | AB |
| C732 | VCKYPA2HB102K+ | X | 1000p | 500V | Ceramic | AB |
| C733 | VCKYPA2HB102K+ | X | 1000p | 500V | Ceramic | AB |
| C734 | VCKYPA2HB471K+ | X | 470p | 500V | Ceramic | AB |
| C735 | VCKYPA2HB471K+ | X | 470p | 500V | Ceramic | AB |
| C736 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C737 | VCEA0A1HW226M+ | X | 22 | 50V | EL. | AB |
| C738 | VCFPVC3CA102H | X | 1000p | 1250V | M.Polypro | AB |
| C739 | RC-EZ0385CEZZ+ | X | 1000 | 16V | EL. | AB |
| C740 | VCEA0A1HW476M+ | X | 47 | 50V | EL. | AB |
| C741 | VCEA4A2AN105M+ | X | 1 | 100V | EL. | AB |
| C743 | RC-KZ0036CEZZ+ | X | 330p | 2kV | Ceramic | AB |
| C744 | VCKYPA2HB471K+ | X | 470p | 500V | Ceramic | AB |
| C745 | VCKYPA2HB102K+ | X | 1000p | 500V | Ceramic | AB |
| C746 | VCKYPA2HB102K+ | X | 1000p | 500V | Ceramic | AB |
| C747 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C749 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C753 | RC-KZ0036CEZZ+ | X | 330p | 2kV | Ceramic | AB |
| C754 | VCKYPA2HB472K+ | X | 4700p | 500V | Ceramic | AB |
| C755 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C783 | VCQYTA1HM103J+ | X | 0.01 | 50V | Mylar | AB |
| C784 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C801 | VCCCCY1HH110JY | X | 11p | 50V | Ceramic | AA |
| C802 | VCKYCY1HB222KY | X | 2200p | 50V | Ceramic | AA |
| C803 | VCEA0A1HW224M+ | X | 0.22 | 50V | EL. | AB |
| C804 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C805 | VCEA0A0JW108M+ | X | 1000 | 6.3V | EL. | AB |
| C806 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C807 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C808 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C809 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C810 | VCEA0A1CW477M+ | X | 470 | 16V | EL. | AB |
| C812 | VCQYTA1HM104J+ | X | 0.1 | 50V | Mylar | AB |
| C901 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C902 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C903 | VCKYCY1HB681KY | X | 680p | 50V | Ceramic | AA |
| C904 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C905 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C906 | VCKYCY1HB681KY | X | 680p | 50V | Ceramic | AA |
| C907 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C908 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C909 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C910 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C911 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C912 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C913 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C914 | VCKYCY1HB681KY | X | 680p | 50V | Ceramic | AA |
| C915 | VCKYPA1HF103Z+ | X | 0.01 | 50V | Ceramic | AA |
| C916 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C917 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C918 | VCKYCY1HB681KY | X | 680p | 50V | Ceramic | AA |
| C919 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C920 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C921 | VCKYCY1HB681KY | X | 680p | 50V | Ceramic | AA |
| C922 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C923 | VCEA0A1CW107M+ | X | 100 | 16V | EL. | AB |
| C926 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C928 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C930 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C931 | VCKYCY1HB183KY | X | 0.018 | 50V | Ceramic | AA |
| C932 | VCKYCY1HB183KY | X | 0.018 | 50V | Ceramic | AA |
| C933 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C934 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C935 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C936 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C937 | VCKYCY1HB103KY | X | 0.01 | 50V | Ceramic | AA |
| C953 | VCKYCY1HB681KY | X | 680p | 50V | Ceramic | AA |
| C956 | VCEA0A1CW477M+ | X | 470 | 16V | EL. | AB |
| C1434 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C1437 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C2001 | VCCCCY1HH101JY | X | 100p | 50V | Ceramic | AA |
| C2002 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C2025 | VCCCCY1HH101JY | X | 100p | 50V | Ceramic | AA |
| C2040 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C2041 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C2043 | VCCCCY1HH331JY | X | 330p | 50V | Ceramic | AB |
| C2044 | VCCCCY1HH100DY | X | 10p | 50V | Ceramic | AA |
| C2046 | VCEA0A1EW476M+ | X | 47 | 25V | EL. | AB |
| C2060 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C2061 | VCCCCY1HH101JY | X | 100p | 50V | Ceramic | AA |
| C2062 | VCEA0A1CW107M+ | X | 100 | 16V | EL. | AB |
| C2063 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C2064 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C2201 | VCKYCY1HB681KY | X | 680p | 50V | Ceramic | AA |
| C2202 | VCCCCY1HH330JY | X | 33p | 50V | Ceramic | AA |
| C2501 | VCKYCY1HB102KY | X | 1000p | 50V | Ceramic | AA |
| C2603 | VCCCCY1HH101JY | X | 100p | 50V | Ceramic | AA |
| C3001 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3002 | VCKYCY1HB562KY | X | 5600p | 50V | Ceramic | AA |
| C3003 | VCKYCY1EB123KY | X | 0.012 | 25V | Ceramic | AA |
| C3004 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C3005 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3006 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C3007 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3008 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C3009 | VCEA0A1CW477M+ | X | 470 | 16V | EL. | AB |
| C3010 | VCE9GA1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3011 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3012 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3013 | VCKYCY1HB272KY | X | 2700p | 50V | Ceramic | AA |
| C3014 | VCKYCY1CB473KY | X | 0.047 | 16V | Ceramic | AA |
| C3015 | VCEACA1HC335K+ | X | 3.3 | 50V | EL. | AB |
| C3016 | VCE9GA1HW475M+ | X | 4.7 | 50V | EL. | AB |

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## MAIN UNIT

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C3017 | VCEACA1CC106K+ | X | 10 | 16V | EL. | AB |
| C3018 | VCEA0A1HW105M+ | X | 1 | 50V | EL. | AB |
| C3021 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3022 | VCEA0A1HW475M+ | X | 4.7 | 50V | EL. | AB |
| C3025 | VCKYCY1CB473KY | X | 0.047 | 16V | Ceramic | AA |
| C3027 | VCKYCY1CB473KY | X | 0.047 | 16V | Ceramic | AA |
| C3028 | VCKYCY1HB682KY | X | 6800p | 50V | Ceramic | AA |
| C3029 | VCKYCY1HB682KY | X | 6800p | 50V | Ceramic | AA |
| | RESISTORS | | | | | |
| | *[M-Ox.··· Metal Oxide, M-Film ··· Metal Film]* | | | | | |
| RJ7 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ8 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ9 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ10 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ11 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ12 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ13 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ14 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ15 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ16 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ19 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ20 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ21 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ22 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ23 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ25 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R54 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R55 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R56 | VRD-RA2BE823JY | X | 82k | 1/8W | Carbon | AA |
| R57 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R201 | VRS-CY1JF151JY | X | 150 | 1/16W | M-Ox. | AA |
| R202 | VRS-CY1JF122JY | X | 1.2k | 1/16W | M-Ox. | AA |
| R203 | VRS-CY1JF682JY | X | 6.8k | 1/16W | M-Ox. | AA |
| R204 | VRS-CY1JF270JY | X | 27 | 1/16W | M-Ox. | AA |
| R205 | VRS-CY1JF331JY | X | 330 | 1/16W | M-Ox. | AA |
| R206 | VRD-RA2BE101JY | X | 100 | 1/8W | Carbon | AA |
| R211 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R212 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R225 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R226 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R227 | VRS-CY1JF273JY | X | 27k | 1/16W | M-Ox. | AA |
| R232 | VRS-CY1JF471JY | X | 470 | 1/16W | M-Ox. | AA |
| R234 | VRD-RA2BE271JY | X | 270 | 1/8W | Carbon | AA |
| R236 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R301 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R305 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R306 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R307 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R308 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R361 | VRD-RA2BE224JY | X | 220k | 1/8W | M-Ox. | AA |
| R362 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R363 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R364 | VRD-RA2BE821JY | X | 820 | 1/8W | Carbon | AA |
| R365 | VRS-CY1JF821JY | X | 820 | 1/16W | M-Ox. | AA |
| ⚠ R367 | VRN-RL3DB1R2J+ | X | 1.2 | 2W | M-Film | AB |
| R368 | VRD-RA2BE222JY | X | 2.2k | 1/8W | Carbon | AA |
| R369 | VRD-RA2BE822JY | X | 8.2k | 1/8W | Carbon | AA |
| R371 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R372 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R403 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R404 | VRS-CY1JF683JY | X | 68k | 1/16W | M-Ox. | AA |
| R406 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R407 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R408 | VRS-CY1JF683JY | X | 68k | 1/16W | M-Ox. | AA |
| R410 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R411 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R412 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R413 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R414 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R415 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R422 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R414 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R415 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R422 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R430 | VRS-CY1JF391JY | X | 390 | 1/16W | M-Ox. | AA |
| R431 | VRS-CY1JF331JY | X | 330 | 1/16W | M-Ox. | AA |
| R432 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R436 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R437 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R438 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R439 | VRS-CY1JF104JY | X | 100k | 1/16W | M-Ox. | AA |
| R441 | VRS-CY1JF472JY | X | 4.7k | 1/16W | M-Ox. | AA |
| R442 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R444 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R445 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R446 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R447 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R448 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R449 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R450 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| ⚠ R451 | VRS-RG3AB103J+ | X | 10k | 1W | M-Ox. | AB |
| R452 | VRD-RM2HD823JY | X | 82k | 1/2W | Carbon | AA |
| R453 | VRD-RM2HD223JY | X | 22k | 1/2W | Carbon | AA |
| R454 | VRS-CY1JF471JY | X | 470 | 1/16W | M-Ox. | AA |
| R456 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R460 | VRS-CY1JF471JY | X | 470 | 1/16W | M-Ox. | AA |
| R461 | VRS-CY1JF562JY | X | 5.6k | 1/16W | M-Ox. | AA |
| R462 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R463 | VRD-RA2EE680JY | X | 68 | 1/4W | Carbon | AA |
| R464 | VRS-CY1JF683JY | X | 68k | 1/16W | M-Ox. | AA |
| R467 | VRS-CY1JF123JY | X | 12k | 1/16W | M-Ox. | AA |
| R471 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R472 | VRS-CY1JF273JY | X | 27k | 1/16W | M-Ox. | AA |
| R473 | VRS-CY1JF471JY | X | 470 | 1/16W | M-Ox. | AA |
| R474 | VRS-CY1JF681JY | X | 680 | 1/16W | M-Ox. | AA |
| R475 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R476 | VRS-CY1JF393JY | X | 39k | 1/16W | M-Ox. | AA |
| R477 | VRS-CY1JF182JY | X | 1.8k | 1/16W | M-Ox. | AA |
| R478 | VRS-CY1JF151JY | X | 150 | 1/16W | M-Ox. | AA |
| R479 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R480 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R481 | VRS-CY1JF152JY | X | 1.5k | 1/16W | M-Ox. | AA |
| R482 | VRS-CY1JF100JY | X | 10 | 1/16W | M-Ox. | AA |
| R483 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| ⚠ R501 | VRN-RL3ABR47J+ | X | 0.47 | 1W | M-Film | AB |
| R502 | VRN-RA2BK822FY | X | 8.2k | 1/8W | M-Film | AB |
| R503 | VRS-CY1JF105JY | X | 1M | 1/16W | M-Ox. | AA |
| R504 | VRS-CY1JF154JY | X | 150k | 1/16W | M-Ox. | AA |
| R505 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R510 | VRN-RA2BK103FY | X | 10k | 1/8W | M-Film | AB |
| R511 | VRN-RA2BK222FY | X | 2.2k | 1/8W | M-Film | AB |
| R512 | VRN-RA2BK272FY | X | 2.7k | 1/8W | M-Film | AB |
| R513 | VRD-RM2HD1R5JY | X | 1.5 | 1/2W | Carbon | AA |
| R517 | VRS-CY1JF104JY | X | 100k | 1/16W | M-Ox. | AA |
| R518 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R521 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| ⚠ R523 | VRN-RL3DBR82J+ | X | 0.82 | 2W | M-Film | AB |
| ⚠ R524 | VRS-RG3AB561J+ | X | 560 | 1W | M-Ox. | AB |
| R601 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R603 | VRD-RA2BE472JY | X | 4.7k | 1/8W | Carbon | AA |
| ⚠ R604 | VRS-KA3NG562J | X | 5.6k | 7.0W | M-Ox. | AB |
| R605 | VRD-RM2HD331JY | X | 330 | 1/2W | Carbon | AA |
| R606 | VRD-RM2HD331JY | X | 330 | 1/2W | Carbon | AA |
| ⚠ R609 | VRS-RG3DB332J+ | X | 3.3k | 2W | M-Ox. | AB |
| ⚠ R610 | VRD-RM2HD220JY | X | 22 | 1/2W | Carbon | AA |
| ⚠ R611 | VRW-KQ41C3R3K | X | 3.3 | 15W | Cement | AB |
| R612 | VRS-CY1JF154JY | X | 150k | 1/16W | M-Ox. | AA |
| R613 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R614 | VRS-CY1JF562JY | X | 5.6k | 1/16W | M-Ox. | AA |
| R618 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| ⚠ R621 | VRN-RL3AB4R7J+ | X | 4.7 | 1W | M-Film | AB |
| ⚠ R623 | VRN-RL3AB4R7J+ | X | 4.7 | 1W | M-Film | AB |
| ⚠ R624 | VRS-RG3DB332J+ | X | 3.3k | 2W | M-Ox. | AB |
| ⚠ R627 | VRN-RL3ABR47J+ | X | 0.47 | 1W | M-Film | AB |
| ⚠ R628 | VRN-RL3ABR47J+ | X | 0.47 | 1W | M-Film | AB |
| ▲ ⚠ R651 | VRS-RG2HC270J+ | X | 27 | 1/2W | M-Ox. | AB |
| ▲ ⚠ R652 | VRD-RA2EE103GY | X | 10k | 1/4W | Carbon | AA |

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## MAIN UNIT

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| ▲ ⚠ R653 | VRD-RA2EE562GY | X | 5.6k | 1/4W | Carbon | AA |
| ▲ ⚠ R654 | VRD-RA2BE683JY | X | 68k | 1/8W | Carbon | AA |
| ⚠ R658 | VRS-RG3LB333J+ | X | 33k | 3.0W | M-Ox. | AB |
| R663 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R670 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R684 | VRD-RA2BE472JY | X | 4.7k | 1/8W | Carbon | AA |
| R685 | VRD-RA2BE822JY | X | 8.2k | 1/8W | Carbon | AA |
| R686 | VRD-RA2EE332JY | X | 3.3k | 1/4W | Carbon | AA |
| R687 | VRD-RA2BE103JY | X | 10k | 1/8W | Carbon | AA |
| ⚠ R688 | VRN-RL3DB3R3J+ | X | 3.3 | 2W | M-Film | AB |
| R689 | VRD-RM2HD824JY | X | 820k | 1/2W | Carbon | AA |
| R695 | VRS-CY1JF683JY | X | 68k | 1/16W | M-Ox. | AA |
| ⚠ R701 | RR-DZ0049CEZZY | X | 3.9M | 1/2W | Solid | AB |
| ⚠ R703 | VRW-KQ4AC1R2K | X | 1.2 | 10W | Cement | AB |
| ⚠ R705 | VRN-RL3DBR15J+ | X | 0.15 | 2W | M-Film | AB |
| ⚠ R706 | VRN-RL3DBR15J+ | X | 0.15 | 2W | M-Film | AB |
| R707 | VRD-RM2HD270JY | X | 27 | 1/2W | Carbon | AA |
| R708 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R709 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| ⚠ R710 | VRS-RG2HC103J+ | X | 10k | 1/2W | M-Ox. | AB |
| R711 | VRS-CY1JF334JY | X | 330k | 1/16W | M-Ox. | AA |
| R712 | VRD-RM2HD100JY | X | 10 | 1/2W | Carbon | AA |
| ⚠ R713 | VRS-RG2HC122J+ | X | 1.2k | 1/2W | M-Ox. | AB |
| R715 | VRD-RM2HD5R6JY | X | 5.6 | 1/2W | Carbon | AA |
| R716 | VRD-RM2HD100JY | X | 10 | 1/2W | Carbon | AA |
| R720 | VRD-RA2BE473JY | X | 47k | 1/8W | Carbon | AA |
| R724 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R725 | VRD-RM2HD821JY | X | 820 | 1/2W | Carbon | AA |
| R734 | VRD-RM2HD124JY | X | 120k | 1/2W | Carbon | AA |
| ⚠ R737 | VRN-RL3LBR82J+ | X | 0.82 | 3.0W | M-Film | AB |
| R742 | VRD-RA2BE222JY | X | 2.2k | 1/8W | Carbon | AA |
| R743 | VRD-RM2HD470JY | X | 47 | 1/2W | Carbon | AA |
| R751 | VRD-RA2BE473JY | X | 47k | 1/8W | Carbon | AA |
| R752 | VRD-RA2BE392JY | X | 3.9k | 1/8W | Carbon | AA |
| R753 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R754 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R755 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R756 | VRD-RA2BE152JY | X | 1.5k | 1/8W | Carbon | AA |
| ⚠ R757 | VRN-RL3DB4R7J+ | X | 4.7 | 2W | M-Film | AB |
| R759 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R761 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R762 | VRD-RA2BE103JY | X | 10k | 1/8W | Carbon | AA |
| R764 | VRD-RM2HD562JY | X | 5.6k | 1/2W | Carbon | AA |
| R767 | VRD-RM2HD151JY | X | 150 | 1/2W | Carbon | AA |
| R768 | VRD-RA2BE473JY | X | 47k | 1/8W | Carbon | AA |
| R770 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R771 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R772 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R773 | VRD-RM2HD823JY | X | 82k | 1/2W | Carbon | AA |
| R774 | VRD-RA2BE272JY | X | 2.7k | 1/8W | Carbon | AA |
| R775 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R776 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R801 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R802 | VRS-CY1JF471JY | X | 470 | 1/16W | M-Ox. | AA |
| R803 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R805 | VRS-CY1JF682JY | X | 6.8k | 1/16W | M-Ox. | AA |
| R806 | VRS-CY1JF681JY | X | 680 | 1/16W | M-Ox. | AA |
| R807 | VRS-CY1JF681JY | X | 680 | 1/16W | M-Ox. | AA |
| R808 | VRS-CY1JF681JY | X | 680 | 1/16W | M-Ox. | AA |
| R810 | VRS-CY1JF472JY | X | 4.7k | 1/16W | M-Ox. | AA |
| R903 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R904 | VRS-CY1JF683JY | X | 68k | 1/16W | M-Ox. | AA |
| R905 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R906 | VRD-RA2BE332JY | X | 3.3k | 1/8W | Carbon | AA |
| R907 | VRS-CY1JF152JY | X | 1.5k | 1/16W | M-Ox. | AA |
| R908 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R910 | VRD-RA2BE102JY | X | 1k | 1/8W | Carbon | AA |
| R911 | VRS-CY1JF683JY | X | 68k | 1/16W | M-Ox. | AA |
| R912 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R913 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R914 | VRS-CY1JF152JY | X | 1.5k | 1/16W | M-Ox. | AA |
| R915 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R916 | VRS-CY1JF683JY | X | 68k | 1/16W | M-Ox. | AA |
| R917 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R918 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R922 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R923 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R924 | VRS-CY1JF750JY | X | 75 | 1/16W | M-Ox. | AA |
| R925 | VRS-CY1JF750JY | X | 75 | 1/16W | M-Ox. | AA |
| R926 | VRS-CY1JF680JY | X | 68 | 1/16W | M-Ox. | AA |
| R927 | VRS-CY1JF750JY | X | 75 | 1/16W | M-Ox. | AA |
| R929 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R930 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R931 | VRS-CY1JF750JY | X | 75 | 1/16W | M-Ox. | AA |
| R932 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R933 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R934 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R935 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R936 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R937 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R938 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R939 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R940 | VRS-CY1JF8R2JY | X | 8.2 | 1/16W | M-Ox. | AA |
| R941 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R942 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R943 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R944 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R945 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R946 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R947 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R948 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R949 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R950 | VRS-CY1JF750JY | X | 75 | 1/16W | M-Ox. | AA |
| R951 | VRD-RA2BE680JY | X | 68 | 1/8W | Carbon | AA |
| R952 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R954 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R955 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R957 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R958 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R959 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R960 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R961 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R962 | VRS-CY1JF332FY | X | 3.3k | 1/16W | M-Ox. | AA |
| R963 | VRD-RA2BE101JY | X | 100 | 1/8W | Carbon | AA |
| R964 | VRS-CY1JF152JY | X | 1.5k | 1/16W | M-Ox. | AA |
| R967 | VRS-CY1JF682JY | X | 6.8k | 1/16W | M-Ox. | AA |
| R968 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R969 | VRS-CY1JF472FY | X | 4.7k | 1/16W | M-Ox. | AA |
| R970 | VRD-RA2BE6R8JY | X | 6.8 | 1/8W | Carbon | AA |
| R971 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R972 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R973 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R974 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R975 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R983 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R984 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| ⚠ R1420 | VRN-RL3LB2R7J+ | X | 2.7 | 3.0W | M-Film | AB |
| R2001 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R2004 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2008 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R2010 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R2013 | VRS-CY1JF682JY | X | 6.8k | 1/16W | M-Ox. | AA |
| R2021 | VRS-CY1JF334JY | X | 330k | 1/16W | M-Ox. | AA |
| R2024 | VRS-CY1JF472JY | X | 4.7k | 1/16W | M-Ox. | AA |
| R2025 | VRS-CY1JF472JY | X | 4.7k | 1/16W | M-Ox. | AA |
| R2026 | VRS-CY1JF472JY | X | 4.7k | 1/16W | M-Ox. | AA |
| R2027 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R2028 | VRD-RA2BE102JY | X | 1k | 1/8W | Carbon | AA |
| R2031 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R2033 | VRS-CY1JF334JY | X | 330k | 1/16W | M-Ox. | AA |
| R2040 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R2041 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R2042 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2043 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R2044 | VRS-CY1JF153JY | X | 15k | 1/16W | M-Ox. | AA |
| R2046 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2047 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R2048 | VRS-CY1JF562JY | X | 5.6k | 1/16W | M-Ox. | AA |

# PWB-A: DUNTKB567FMB7(32UF6)

## MAIN UNIT

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| R2051 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R2060 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R2061 | VRS-CY1JF562JY | X | 5.6k | 1/16W | M-Ox. | AA |
| R2062 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R2063 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R2064 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R2073 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R2084 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R2086 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2090 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2092 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2101 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2102 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R2201 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R2202 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R2203 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R2211 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R2212 | VRS-CY1JF682JY | X | 6.8k | 1/16W | M-Ox. | AA |
| R2213 | VRS-CY1JF333JY | X | 33k | 1/16W | M-Ox. | AA |
| R2401 | VRD-RA2BE101JY | X | 100 | 1/8W | Carbon | AA |
| R2402 | VRD-RA2BE101JY | X | 100 | 1/8W | Carbon | AA |
| R2403 | VRD-RA2BE101JY | X | 100 | 1/8W | Carbon | AA |
| R2404 | VRD-RA2BE101JY | X | 100 | 1/8W | Carbon | AA |
| R2501 | VRS-CY1JF183JY | X | 18k | 1/16W | M-Ox. | AA |
| R2502 | VRS-CY1JF183JY | X | 18k | 1/16W | M-Ox. | AA |
| R2503 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R2504 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R2509 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R3001 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R3002 | VRS-CY1JF221JY | X | 220 | 1/16W | M-Ox. | AA |
| R3003 | VRS-CY1JF105JY | X | 1M | 1/16W | M-Ox. | AA |
| R3004 | VRS-CY1JF104JY | X | 100k | 1/16W | M-Ox. | AA |
| R3005 | VRS-CY1JF623JY | X | 62k | 1/16W | M-Ox. | AA |
| R3007 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R3008 | VRS-CY1JF302JY | X | 3k | 1/16W | M-Ox. | AA |
| R3010 | VRS-CY1JF392JY | X | 3.9k | 1/16W | M-Ox. | AA |
| R3017 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R3018 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R3019 | VRS-CY1JF101JY | X | 100 | 1/16W | M-Ox. | AA |
| R3024 | VRD-RA2BE102JY | X | 1k | 1/8W | Carbon | AA |

### BALUNES

| | | | | | |
|---|---|---|---|---|---|
| FB601 | RBLN-0047CEZZY | X | FERRITE BEAD | | AB |
| FB706 | RBLN-0037CEZZY | X | FERRITE BEAD | | AB |
| FB2001 | RBLN-0037CEZZY | X | FERRITE BEAD | | AB |

### MISCELLANEOUS PARTS

| | | | | | | |
|---|---|---|---|---|---|---|
| ⚠ | ACC701 | QACCDA012WJPZ | X | AC Cord | | AE |
| | FH701 | QFSHD1013CEZZ+ | X | FUSE CLIP | | AB |
| | FH702 | QFSHD1014CEZZ+ | X | FUSE CLIP | | AB |
| ⚠ | F701 | QFS-B4023CEZZ | X | FUSE - 4A 125V | | AB |
| | J921 | QSOCD0430CEZZ | X | S-Video terminal | | AC |
| | J1401 | QTANJ1101SEZZ | X | AV In/Out Terminal | | AF |
| | P361 | QPLGN0461CEZZA | X | Plug, 4pin(S1-4) | | AB |
| | P401 | QPLGN0861CEZZA | X | Plug, 8pin(CJ) | | AB |
| | P601 | QPLGN0161FJZZ | X | Plug, 6Pin(K1-6) | | AB |
| | P602 | QPLGN0761CEZZA | X | Plug, 7pin(N) | | AB |
| | P603 | QPLGN0161FJZZ | X | Plug, 6Pin(K1-6) | | AB |
| | P604 | QPLGN0157FJZZ | X | Plug, 2Pin(XC) | | AB |
| | P621 | QPLGN0761CEZZA | X | Plug, 7pin(N) | | AB |
| | P651 | QPLGN0361CEZZA | X | Plug, 3pin | (TP651-3) | AB |
| | P702 | QPLGN0269GEZZ | X | Plug, 2pin | (P1-2) | AB |
| | P703 | QPLGN0260CEZZ | X | Plug, 2pin | (M1-2) | AB |
| | P1301 | QPLGN0661CEZZA | X | Plug, 6pin | | AB |
| | P2003 | QPLGN0561CEZZA | X | Plug, 5Pin(KA) | | AB |
| | P2401 | QPLGN0661CEZZA | X | Plug, 6pin | | AB |
| | CF2040 | RCRM-0003CEZZ+ | X | Ceramic Vibrator | | AC |
| | RDA361 | PRDAR0258PEFW | X | Heat Sink | for IC361 | AC |
| | RDA501 | PRDARA039WJFW | X | Heat Sink | for IC501 | AD |
| | RDA601 | PRDARA041WJFW | X | Heat Sink | for Q602 | AD |
| | RDA671 | PRDARA057WJFW | X | Heat Sink | for Q673 | AC |
| | RDA701 | PRDAR0279PEFW | X | Heat Sink | for Q701 | AB |
| | RDA750 | PRDAR5072CEFW | X | Heat Sink | for IC751 | AB |
| | RDA1403 | PRDAR5072CEFW | X | Heat Sink | for IC1403 | AB |
| | RY701 | RRLYJ0081CEZZ | X | RELAY | | AD |
| | SG601 | QSPGH0025CEZZ | X | Spark Gap | | AB |
| | TP701 | QLUGP0102PEZZ | X | Lug | | AA |

# PWB-B DUNTKA527WEV9

## CRT Unit

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|

### INTEGRATED CIRCUIT

| | | | | | | |
|---|---|---|---|---|---|---|
| IC850 | VHITDA6103Q-1 | X | TDA6103Q/N3 | | | AG |

### TRANSISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| Q850 | VS2SA1266-Y-1+ | X | 2SA1266 | | | AB |
| Q851 | VS2SC3198-G-1+ | X | 2SC3198-G | | | AB |
| Q1504 | VS2SC3198-G-1+ | X | 2SC3198-G | | | AB |
| Q1505 | VS2SA1266-Y-1+ | X | 2SA1266-Y | | | AB |
| Q1506 | VS2SA1964E/-1 | X | 2SA1964E | | | AC |
| Q1507 | VS2SC5248E/-1 | X | 2SC5248E | | | AC |

### DIODES

| | | | | | | |
|---|---|---|---|---|---|---|
| D853 | RH-EX0647GEZZY | X | Zener Diode, | | 15V | AB |
| D854 | VHD1SS119//-1Y | X | 1SS119 | | | AA |
| D855 | VHD1SS119//-1Y | X | 1SS119 | | | AA |
| D1502 | VHD1SS119//-1Y | X | 1SS119 | | | AA |
| D1503 | VHD1SS119//-1Y | X | 1SS119 | | | AA |
| D1506 | RH-DX0487CEZZY | X | Diode | | | AB |
| D1507 | RH-DX0487CEZZY | X | Diode | | | AB |
| D1510 | VHD1SS119//-1Y | X | 1SS119 | | | AA |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C850 | VCFYSB2EB823J | X | 0.082 | 250V | M.Polypro | AB |
| C851 | RC-KZ018JCEZZ | X | 0.01 | AC250V | Ceramic | AB |
| C852 | VCEA0A1CW107M+ | X | 100 | 16V | EL. | AB |
| C853 | VCFYFA1HA224J+ | X | 0.22 | 50V | Mylar | AB |
| C854 | VCEA0A1CW227M+ | X | 220 | 16V | EL. | AB |
| C855 | VCEA0A2EW336M+ | X | 33 | 250V | EL. | AB |
| C856 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C1501 | VCEA0A1CW476M+ | X | 47 | 16V | EL. | AB |
| C1506 | VCKYPA1HF103Z+ | X | 0.01 | 50V | Ceramic | AA |
| C1508 | VCKYPA2HB472K+ | X | 4700p | 500V | Ceramic | AB |
| C1509 | VCKYPA1HB472K+ | X | 4700p | 50V | Ceramic | AB |
| C1510 | VCKYPA1HF103Z+ | X | 0.01 | 50V | Ceramic | AA |
| C1511 | VCKYPA1HF103Z+ | X | 0.01 | 50V | Ceramic | AA |
| C1515 | VCEA0A1HW476M+ | X | 47 | 50V | EL. | AB |
| C1516 | VCEA0A1HW476M+ | X | 47 | 50V | EL. | AB |
| C1517 | VCEA0A2AW106M+ | X | 10 | 100V | EL. | AB |
| C1518 | VCCSPA2HL560K+ | X | 56p | 500V | Ceramic | AB |
| C1519 | VCEA0A2CW106M+ | X | 10 | 160V | EL. | AB |

### FERRITE BEAD

| | | | | | | |
|---|---|---|---|---|---|---|
| FB1501 | RBLN-0020CEZZ+ | X | FERRITE BEAD | | | AB |

### PLUG

| | | | | | | |
|---|---|---|---|---|---|---|
| P852 | QPLGN0341CEZZ | X | PLUG (3 PINS) | | | AB |
| P854 | QPLGN0741CEZZ | X | PLUG (7 PINS) | | | AB |
| P860 | QPLGN0841CEZZ | X | PLUG (8 PINS) | | | AB |

### RESISTORS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ⚠ | R850 | VRS-SV2HC152J | X | 1.5k | 1/2W | M-Ox. | AB |
| ⚠ | R851 | VRS-SV2HC152J | X | 1.5k | 1/2W | M-Ox. | AB |
| ⚠ | R852 | VRS-SV2HC152J | X | 1.5k | 1/2W | M-Ox. | AB |
| ⚠ | R853 | VRS-SV2HC272J | X | 2.7k | 1/2W | M-Ox. | AB |
| ⚠ | R854 | VRS-SV2HC272J | X | 2.7k | 1/2W | M-Ox. | AB |
| ⚠ | R855 | VRS-SV2HC272J | X | 2.7k | 1/2W | M-Ox. | AB |
| | R856 | VRD-RM2HD104JY | X | 100k | 1/2W | Carbon | AA |
| | R857 | VRD-RM2HD104JY | X | 100k | 1/2W | Carbon | AA |
| | R858 | VRD-RM2HD104JY | X | 100k | 1/2W | Carbon | AA |
| | R862 | VRC-MA2HG152KY | X | 1.5k | 1/2W | Solid | AB |
| | R863 | VRC-MA2HG152KY | X | 1.5k | 1/2W | Solid | AB |
| | R864 | VRC-MA2HG152KY | X | 1.5k | 1/2W | Solid | AB |
| ⚠ | R867 | VRS-SV2HC392J | X | 3.9k | 1/2W | M-Ox. | AB |
| ⚠ | R868 | VRS-SV2HC682J | X | 6.8k | 1/2W | M-Ox. | AB |
| | R869 | VRD-RA2BE103JY | X | 10k | 1/8W | M-Ox. | AA |
| | R870 | VRD-RA2BE223JY | X | 22k | 1/8W | Carbon | AA |
| | R871 | VRD-RA2BE472JY | X | 4.7k | 1/8W | Carbon | AA |
| | R872 | VRD-RA2EE680JY | X | 68 | 1/4W | Carbon | AA |
| | R873 | VRD-RM2HD224JY | X | 220k | 1/2W | Carbon | AA |
| | R874 | VRD-RM2HD104JY | X | 100k | 1/2W | Carbon | AA |
| | R875 | VRD-RM2HD104JY | X | 100k | 1/2W | Carbon | AA |
| | R876 | VRD-RM2HD104JY | X | 100k | 1/2W | Carbon | AA |
| | R877 | VRD-RA2BE103JY | X | 10k | 1/8W | M-Ox. | AA |
| ⚠ | R878 | VRS-SV2HC120J | X | 12 | 1/2W | M-Ox. | AB |

# PWB-B DUNTKA527WEV9

## CRT UNIT (Continued)

### RESISTORS

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| R1511 | VRD-RA2BE101JY | X | 100 | 1/8W | Carbon | AA |
| ⚠ R1513 | VRS-VV3DB561J | X | 560 | 2W | M-Ox. | AB |
| R1514 | VRD-RA2BE100JY | X | 10 | 1/8W | Carbon | AA |
| R1515 | VRD-RA2BE820JY | X | 82 | 1/8W | Carbon | AA |
| R1516 | VRD-RA2BE820JY | X | 82 | 1/8W | Carbon | AA |
| R1517 | VRD-RA2BE122JY | X | 1.2k | 1/8W | Carbon | AA |
| R1518 | VRD-RA2BE683JY | X | 68k | 1/8W | Carbon | AA |
| R1519 | VRD-RA2BE123JY | X | 12k | 1/8W | Carbon | AA |
| R1520 | VRD-RA2BE683JY | X | 68k | 1/8W | Carbon | AA |
| R1521 | VRD-RA2BE122JY | X | 1.2k | 1/8W | Carbon | AA |
| R1525 | VRD-RA2EE560JY | X | 56 | 1/4W | Carbon | AA |
| R1526 | VRD-RA2EE560JY | X | 56 | 1/4W | Carbon | AA |
| R1527 | VRD-RM2HD1R5JY | X | 1.5 | 1/2W | Carbon | AA |
| R1528 | VRD-RM2HD1R5JY | X | 1.5 | 1/2W | Carbon | AA |
| ⚠ R1529 | VRS-VV3DB221J | X | 220 | 2W | M-Ox. | AB |
| R1530 | VRD-RA2BE122JY | X | 1.2k | 1/8W | Carbon | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| SC850 | QSOCV0936CEZZ | X | SOCKET | AF |
| RDA850 | PRDAR0248PEFW | X | HEATSINK RDA-850 | AB |
| RDA1506 | PRDAR5072CEFW | X | HEATSINK (STEEL) | AB |
| RDA1507 | PRDAR5072CEFW | X | HEATSINK (STEEL) | AB |

# PWB-C: DUNTKB573WEV0

## 3-LINE Y/C UNIT

### INTEGRATED CIRCUIT

| | | | | |
|---|---|---|---|---|
| IC1401 | VHITC90A53F-1Y | X | C90A53 | AP |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q1401 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| Q1402 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| Q1403 | VS2SB709AR/-1Y | X | 2SB709AR | AB |
| Q1404 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| Q1406 | VS2SB709AR/-1Y | X | 2SB709AR | AB |
| Q1407 | VS2SD601AR/-1Y | X | 2SD601AR | AB |
| Q1408 | VS2SB709AR/-1Y | X | 2SB709AR | AB |

### COILS

| | | | | | | |
|---|---|---|---|---|---|---|
| L1401 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L1402 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L1406 | VP-XF220K0000Y | X | Peaking | 22mH | | AB |
| L1407 | VP-XF220K0000Y | X | Peaking | 22mH | | AB |
| L1408 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L1410 | VP-XF100K0000Y | X | Peaking, | 10mH | | AB |
| L1414 | VP-XF330K0000Y | X | Peaking | 33µH | | AB |
| L1417 | VP-XF220K0000Y | X | Peaking | 22mH | | AB |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C1412 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C1413 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1414 | VCCCCY1HH3R0CY | X | 3p | 50V | Ceramic | AA |
| C1415 | VCE9GA1CW106M+ | X | 10 | 16V | EL. | AB |
| C1416 | VCEA0A1CW477M+ | X | 470 | 16V | EL. | AB |
| C1417 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C1420 | VCCCCY1HH270JY | X | 27p | 50V | Ceramic | AA |
| C1421 | VCCCCY1HH120JY | X | 12p | 50V | Ceramic | AA |
| C1422 | VCCCCY1HH120JY | X | 12p | 50V | Ceramic | AA |
| C1423 | VCCCCY1HH3R0CY | X | 3p | 50V | Ceramic | AA |
| C1424 | VCCCCY1HH270JY | X | 27p | 50V | Ceramic | AA |
| C1425 | VCCCCY1HH100DY | X | 10p | 50V | Ceramic | AA |
| C1428 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1435 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1436 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C1439 | VCE9GA1CW106M+ | X | 10 | 16V | EL. | AB |
| C1440 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C1441 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1442 | VCFYFA1HA474J+ | X | 0.47 | 50V | Mylar | AB |
| C1443 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1444 | VCKYCY1HB472KY | X | 100 | 35V | EL. | AA |
| C1445 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1446 | VCCCCY1HH181JY | X | 180p | 50V | Ceramic | AB |
| C1449 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C1451 | VCEA0A1CW107M+ | X | 100 | 16V | EL. | AB |
| C1452 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C1453 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1454 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1455 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1456 | VCKYCY1CF104ZY | X | 0.1 | 16V | Ceramic | AA |
| C1457 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C1458 | VCEA0A1HW106M+ | X | 10 | 50V | EL. | AB |
| C1460 | VCKYCY1HF103ZY | X | 0.01 | 50V | Ceramic | AA |
| C1470 | VCCCCY1HH270JY | X | 27p | 50V | Ceramic | AA |
| C1474 | VCCCCY1HH150JY | X | 15p | 50V | Ceramic | AA |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| RJ1 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ2 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ3 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ4 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ5 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| RJ6 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R1402 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R1405 | VRS-CY1JF361JY | X | 360 | 1/16W | M-Ox. | AA |
| R1406 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R1407 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R1410 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R1411 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R1412 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R1413 | VRS-CY1JF122JY | X | 1.2k | 1/16W | M-Ox. | AA |
| R1414 | VRS-CY1JF331JY | X | 330 | 1/16W | M-Ox. | AA |
| R1415 | VRS-CY1JF391JY | X | 390 | 1/16W | M-Ox. | AA |
| R1416 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R1421 | VRS-CY1JF471FY | X | 470 | 1/16W | M-Ox. | AA |
| R1423 | VRS-CY1JF152FY | X | 1.5k | 1/16W | M-Ox. | AA |
| R1426 | VRS-CY1JF000JY | X | 00 | 1/16W | M-Ox. | AA |
| R1428 | VRS-CY1JF332JY | X | 3.3k | 1/16W | M-Ox. | AA |
| R1429 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R1430 | VRS-CY1JF473JY | X | 47k | 1/16W | M-Ox. | AA |
| R1431 | VRS-CY1JF223JY | X | 22k | 1/16W | M-Ox. | AA |
| R1432 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R1433 | VRS-CY1JF122JY | X | 1.2k | 1/16W | M-Ox. | AA |
| R1434 | VRS-CY1JF331JY | X | 330 | 1/16W | M-Ox. | AA |
| R1435 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R1436 | VRS-CY1JF331JY | X | 330 | 1/16W | M-Ox. | AA |
| R1438 | VRS-CY1JF222JY | X | 2.2k | 1/16W | M-Ox. | AA |
| R1456 | VRS-CY1JF564JY | X | 560k | 1/16W | M-Ox. | AA |
| R1457 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R1458 | VRD-RA2BE103JY | X | 10k | 1/8W | Carbon | AA |
| R1459 | VRS-CY1JF821JY | X | 820 | 1/16W | M-Ox. | AA |
| R1466 | VRS-CY1JF103JY | X | 10k | 1/16W | M-Ox. | AA |
| R1467 | VRS-CY1JF682JY | X | 6.8k | 1/16W | M-Ox. | AA |
| R1473 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |
| R1475 | VRS-CY1JF102JY | X | 1k | 1/16W | M-Ox. | AA |

### MISCELLANEOUS PART

| | | | | | | |
|---|---|---|---|---|---|---|
| FB1401 | RBLN-0061TAZZY | X | Ferrite | Bead | | AB |
| P1401 | QPLGZ0810CEZZ | X | PLUG 32" | | | AB |

# PWB-F: DUNTKB207WEA5

## CONTROL UNIT

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C4001 | VCEA0A1HW476M+ | X | 47 | 50V | EL. | AB |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R4001 | VRD-RA2BE470JY | X | 47 | 1/8W | Carbon | AA |
| R4006 | VRD-RA2BE822JY | X | 8.2k | 1/8W | Carbon | AA |
| R4007 | VRD-RA2BE822JY | X | 8.2k | 1/8W | Carbon | AA |
| R4009 | VRD-RA2BE183JY | X | 18k | 1/8W | Carbon | AA |
| R4011 | VRD-RA2BE183JY | X | 18k | 1/8W | Carbon | AA |
| R4020 | VRD-RA2BE750JY | X | 75 | 1/8W | Carbon | AA |

### RECEIVER

| | | | | |
|---|---|---|---|---|
| RMC4001 | RRMCU0222CEZZ | X | R/C RECEIVER | AD |

# PWB-F: DUNTKB207WEA5

## CONTROL UNIT

### SWITCHES

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| S4001 | QSW-KA003WJZZ+ | X | Switch, | AB |
| S4002 | QSW-KA003WJZZ+ | X | Switch, | AB |
| S4003 | QSW-KA003WJZZ+ | X | Switch, | AB |
| S4004 | QSW-KA003WJZZ+ | X | Switch, | AB |
| S4005 | QSW-KA003WJZZ+ | X | Switch, | AB |
| S4006 | QSW-KA003WJZZ+ | X | Switch, | AB |

### MISCELLANEOUS PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| J4001 | QJAKGA031WJZZ | X | Front AV In Jack | AC |
| P4001 | QPLGN0641CEZZ | X | Plug, 6Pin(EJ) | AB |
| P4004 | QPLGN0541CEZZ | X | Plug, 5Pin(KA) | AB |

# PWB-F: DUNTKB207WEA5

## CONTROL UNIT

### INTEGRATED CIRCUIT

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| IC1680 | VHIKIA358P+-1 | X | KIA358P | | | AB |

### TRANSISTORS

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| Q1680 | VS2SC5022//1E | X | 2SC5022 | | | AE |
| Q1681 | VS2SC3198-G-1+ | X | 2SC3198-G | | | AB |

### CONTROL UNIT

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| D1610 | RH-DX0202CEZZY | X | Diode | | | AB |
| D1681 | RH-DX0475CEZZY | X | Diode | | | AB |
| D1682 | RH-DX0475CEZZY | X | Diode | | | AB |
| D1683 | RH-DX0475CEZZY | X | Diode | | | AB |
| D1684 | RH-DX0475CEZZY | X | Diode | | | AB |
| D1686 | RH-DX0487CEZZY | X | Diode | | | AB |
| D1687 | RH-EX0618GEZZY | X | Zener | Diode | 6.2V | AB |
| D1688 | VHD1SS119//-1Y | X | Diode | | | AA |

### COILS

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| L1640 | RCILZA022WJZZ | X | Coil | | | AE |
| L1641 | RCILZA055WJZZ | X | Coil | | | AE |
| L1680 | RCILZA034WJZZ | X | Coil | | | AC |
| L1681 | VP-DF8R2K0000Y | X | Peaking, | 8.2mH | | AB |

### TRANSFORMER

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| T1680 | RTRNZ0209PEZZ | X | Transformer | | | AG |

### CAPACITORS

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C1610 | VCFYSB2EB224K | X | 0.22 | 250V | M.Polypro | AB |
| C1644 | VCFPFA2EB334J | X | 0.68 | 250V | M.Polypro | AB |
| C1677 | VCKYPA1HB391K+ | X | 390p | 50V | Ceramic | AA |
| C1678 | VCKYPA1HB391K+ | X | 390p | 50V | Ceramic | AA |
| C1681 | RC-KZ0024CEZZ | X | 1000p | 2kV | M.Polypro | AB |
| C1682 | RC-KZ0037CEZZ | X | 390p | 2kV | M.Polypro | AB |
| C1683 | VCE9GA1HW335M+ | X | 3.3 | 50V | EL. | AB |
| C1684 | VCEA0A1VW477M+ | X | 470 | 35V | EL. | AB |
| C1685 | VCFYFA1HA474J+ | X | 0.47 | 50V | Mylar | AB |
| C1686 | VCEA0A1VW108M+ | X | 1000 | 35V | EL. | AB |
| C1687 | VCEA0A1EW107M+ | X | 100 | 25V | EL. | AB |
| C1695 | VCFYFA1HA224J+ | X | 0.22 | 50V | Mylar | AB |
| C1696 | VCQYTA1HM103J+ | X | 0.01 | 50V | Mylar | AB |

### RESISTORS

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| R1610 | VRS-VV3DB103J | X | 10k | 2W | M-Ox. | AB |
| R1627 | VRS-KT3LB122J | X | 1.2k | 3W | M-Ox. | AB |
| R1656 | VRD-RA2BE394JY | X | 390k | 1/8W | Carbon | AA |
| R1657 | VRD-RA2BE683JY | X | 68k | 1/8W | Carbon | AA |
| R1658 | VRD-RA2BE153JY | X | 15K | 1/8W | Carbon | AA |
| R1659 | VRD-RA2BE102JY | X | 1k | 1/8W | Carbon | AA |
| R1680 | VRS-KT3LB154J | X | 150k | 3W | M-Ox. | AB |
| R1681 | VRS-KT3LB104J | X | 100k | 3W | M-Ox. | AB |
| R1682 | VRC-MA2HG333KY | X | 33k | 1/2W | Solid | AB |
| R1683 | VRD-RA2BE332JY | X | 3.3k | 1/8W | Carbon | AA |
| R1684 | VRD-RA2BE681JY | X | 1.5k | 1/8W | Carbon | AA |
| R1685 | VRS-VV3AB181J | X | 180 | 1W | M-Ox. | AB |
| R1686 | VRD-RA2BE103JY | X | 10k | 1/8W | Carbon | AA |
| R1687 | VRD-RA2BE103JY | X | 10k | 1/8W | Carbon | AA |
| R1688 | VRD-RA2BE473JY | X | 47k | 1/8W | Carbon | AA |
| R1689 | VRD-RA2BE823JY | X | 82k | 1/8W | Carbon | AA |
| R1690 | VRD-RA2BE822JY | X | 8.2k | 1/8W | Carbon | AA |

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| P1602 | QPLGN0741CEZZ | X | PLUG | (7 PINS) | | AB |
| P1603 | QPLGN0161FJZZ | X | Plug, | 6Pin | (K1-6) | AB |
| P1604 | QPLGN0157FJZZ | X | Plug, | 2Pin | (XC) | AB |
| RDA1680 | PRDAR0135PEFW | X | Heat | Sink for | Q1680 | AB |
| SG1681 | QSPGH0025CEZZ | X | Spark | Gap | | AB |

# MISCELLANEOUS PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| P3004 | QPLGN0242CEZZ | X | Plug, 2Pin(TP3001-3002) | AA |
| P3006 | QPLGZ0610CEZZ | X | Plug, 6Pin | AB |
| P3007 | QPLGZ0610CEZZ | X | Plug, 6Pin | AB |
| SP1, SP2 | VSP1206PB648A | X | Speaker(32UF6) | AG |
| | QCNW-A475WJZZ | X | Connecting Cord(32UF6) | AC |
| | QCNW-B175WJZZ | X | Connecting Cord | AC |
| | QCNW-B176WJZZ | X | Connecting Cord | AC |
| | QCNW-B177WJZZ | X | Connecting Cord | AC |
| | QCNW-B178WJZZ | X | Connecting Cord | AE |
| | QCNW-B179WJZZ | X | Connecting Cord | AC |
| | QCNW-B240WJZZ | X | Connecting Cord(32UF6) | AE |
| | QCNW-B241WJZZ | X | Connecting Cord(32UF6) | AB |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## SUPPLIED ACCESSORIES

| | | | |
|---|---|---|---|
| RRMCGA035WJSB | X | R/C GUN | AR |
| TGAN-A216WJN1 | X | WARRANTY CARD | — |
| TINS-A759WJN1 | X | OP. MANUAL | AD |
| TCAUH3048GJZZ | X | CAUTION LABEL | AB |

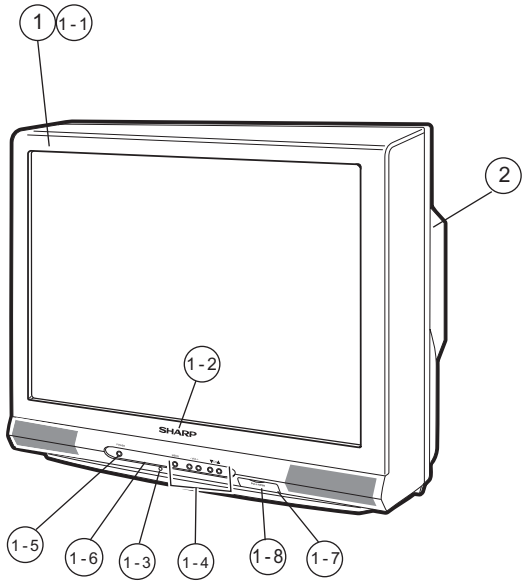
## PACKING PARTS
### *(NOT REPLACEMENT ITEM)*

| | | | |
|---|---|---|---|
| SPAKCA590WJZZ | X | PACKING CASE | AX |
| SPAKP0110GJZZ | X | LAMIFOAM | AF |
| SPAKX0131GJZZ | X | PACKING FOAM | AR |
| SSAKA0101GJZZ | X | PLASTIC BAG | AB |

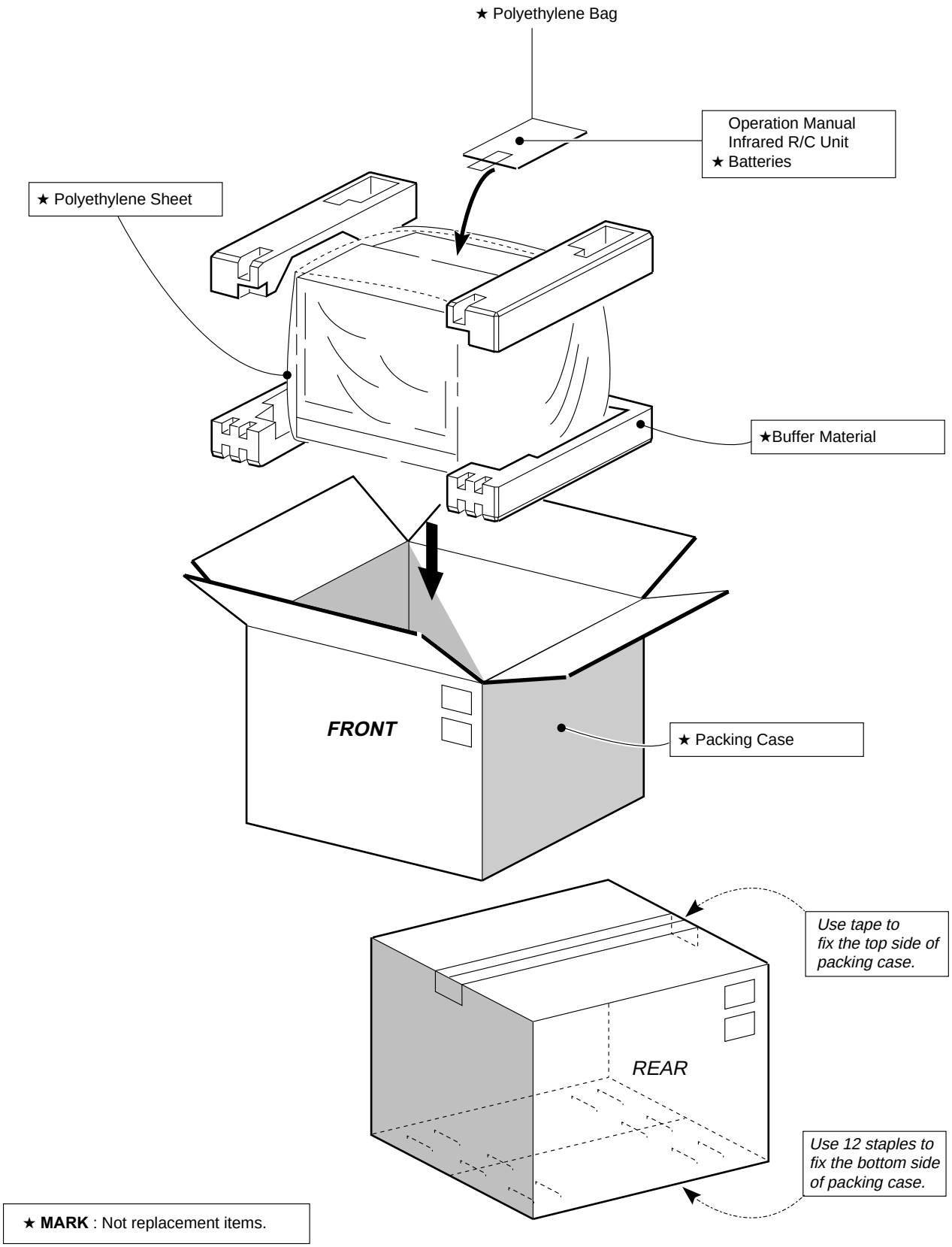
## CABINET PARTS

| | | | | |
|---|---|---|---|---|
| 1 | CCABA0176WEJ3 | X | Front Cabinet Ass' | BH |
| 1-1 | Not Available | — | Front Cabinet | |
| 1-2 | HBDGB3141CESA | X | BADGE | AD |
| 1-3 | HDECQ0105GJSA | X | R/C COVER | AB |
| 1-4 | JBTN-0128GJKA | X | BUTTON | AD |
| 1-5 | JBTN-0129GJKA | X | BUTTON (POWER) | AB |
| 1-6 | HDECQ0104GJKA | X | SPEAKER DECORATION | AF |
| 1-7 | HINDPA433WJSA | X | INDICATION PLATE | AB |
| 1-8 | GDORF0105GJKD | X | DOOR | |
| 2 | CCABB0160WEH1 | X | CAB-B ASSY | BA |
| | Not Available | X | REAR CABINET | |

## CABINET PARTS LOCATION



# PACKING OF THE SET




★ **MARK** : Not replacement items.

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Modify : SEMEX

| Design and Production Information |
| --- |
| Design base : JAPAN |
| Production : SEMEX |

J B

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